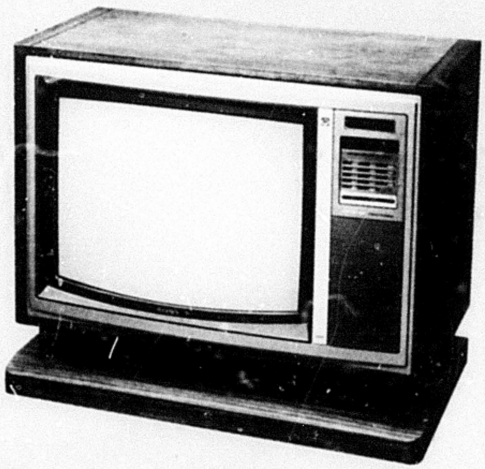
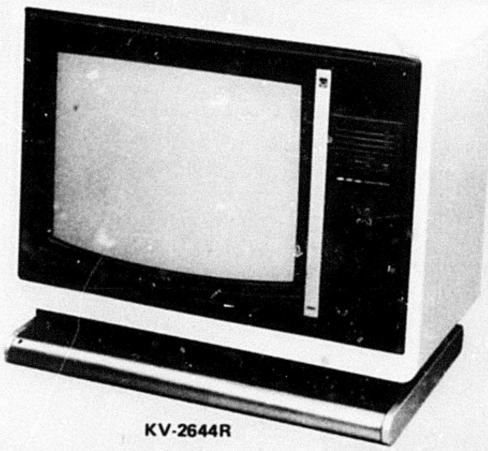
KV-2643R/2644R
RM-503

US Model

Chassis No.
KV-2643R : SCC-205B-A
KV-2644R : SCC-205C-A



KV-2643R



KV-2644R

TRINITRON® COLOR TV

WARNING!!

TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY RATED ISOLATION TRANSFORMER.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SPECIFICATIONS

Television System:	American TV standard
Color System:	NTSC
Picture Tube:	67.2 cm, 26" (screen measured, diagonally) deflection TRINITRON system
Semiconductors:	63 transistors, 3 FETs, 18 ICs, 77 diodes
Antennas:	VHF: 75 Ω unbalanced UHF: 300 Ω balanced
Channel Coverage:	VHF channels: 2 – 13 UHF channels: 14 – 83 (a total up to 14 preselected channels)
Intermediate Frequencies:	Picture i-f carrier: 45.75 MHz Color subcarrier: 42.17 MHz Sound i-f carrier: 41.25 MHz

– Continued on next page –

SONY®
SERVICE MANUAL

Sound System: 4.5 MHz intercarrier
Output power: 2.5 W (at 10 % harmonic distortion)
Speaker: 12 cm (5 inches) dia, 8 Ω

Video System: R, G, B cathode drive

Automatic Controls:
ABL (automatic brightness limiter)
ACA (automatic color attenuator)
ACC (automatic color control)
ACK (automatic color killer)
ADG (automatic degaussing)
AFC (automatic frequency control)
AFT (automatic fine tuning)
AGC (automatic gain control)
ANC (automatic noise canceller)
AVR (automatic voltage regulator)
APC (automatic phase control)

Anode Voltage: 29 kV at zero beam current

Power Requirements: 120 V ac, 60 Hz

Power Consumption: 160 W ac (max), 110 W ac (average)

Dimensions: KV-2643R
Approx. 928 (w) x 769 (h) x 584 (d) mm
36 ½ (w) x 30 ¼ (h) x 23 (d) inches
KV-2644R
Approx. 914 (w) x 772 (h) x 578 (d) mm
36 (w) x 30 3/8 (h) x 22 ¾ (d) inches

Net Weight: KV-2643R
Approx. 80 kg (176 lb 6 oz)
KV-2644R
Approx. 68 kg (149 lb 15 oz)

Accessories Supplied: Remote commander (RM-503)
Antenna connector (EAC-31)
Channel number segments
Instruction manual

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

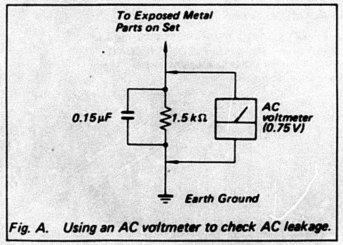


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

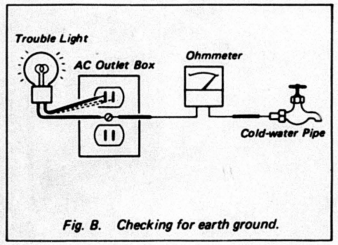
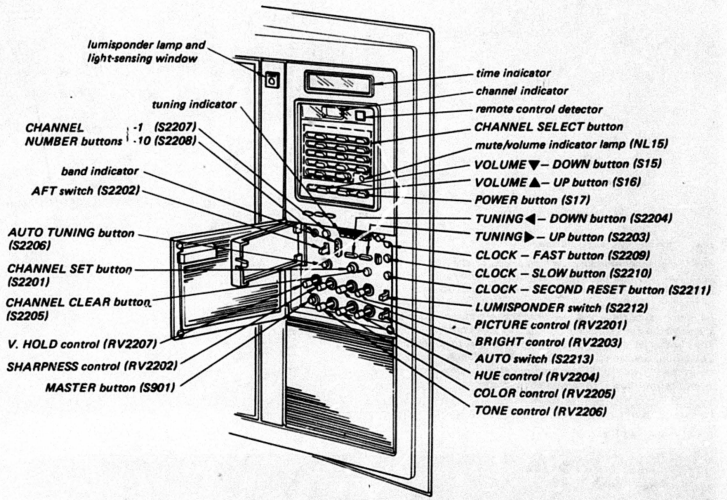


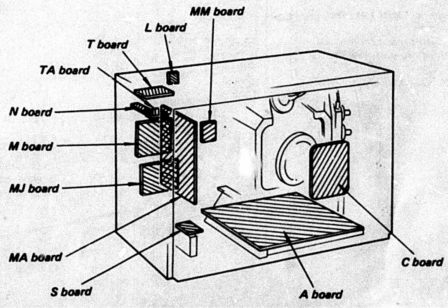
Fig. B. Checking for earth ground.

SECTION 1 OUTLINE

1-1. CONTROL PANEL VIEW

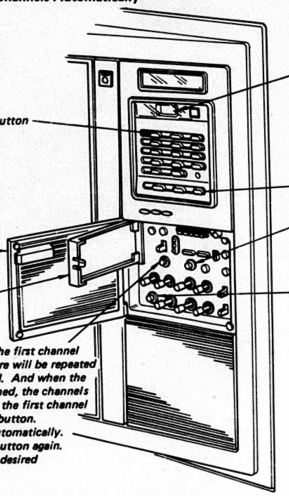


CIRCUIT BOARDS LOCATION



1-2. CHANNEL PRESETTING

1) To Preset the Receivable VHF and UHF Channels Automatically



❶ Press the POWER button.

❷ Press the CHANNEL SET button to ON.
(Channel indicator will blink.)

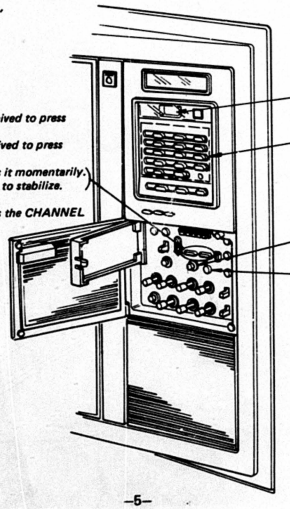
❸ Press the MASTER button in.

❹ Press the AUTO TUNING button.

The first channel found will be memorized on the first channel select button. This tuning-memorizing procedure will be repeated in sequence until no more channel can be found. And when the memorizing of the receivable channels has finished, the channels on remaining buttons will have been erased and the first channel is displaied without pressing the channel select button.
The channel presetting mode will be released automatically.
There is no need to press the CHANNEL SET button again.
(Press the CHANNEL SET button to off at the desired point for interrupting the automatic tuning.)

2) To Preset UHF Channels or Other Source on the Presently Unused Positions (Semi Auto Tuning)

Perform above steps ❶ to ❹, and start step ❺.



❺ Press the CHANNEL SELECT button.

❻ The higher numbered channel is received to press the TUNING ▶ (UP) button.
The lower numbered channel is received to press the TUNING ◀ (DOWN) button.
(Do not hold the button in, just press it momentarily. Allow 1 or 2 seconds for the picture to stabilize.

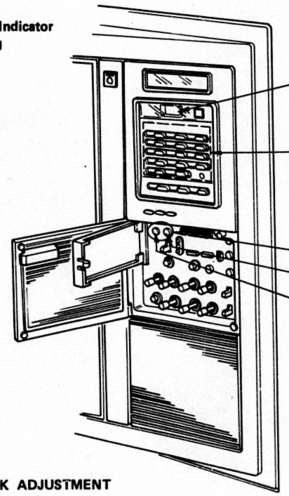
❼ After selecting the CHANNEL, press the CHANNEL SET button again to OFF.

❽ Press the CHANNEL SET button to ON.
(The CHANNEL INDICATOR will blink.)

❾ Press the CHANNEL CLEAR button.

(In consequence, any memory on the depressed channel select button is erased, and the position its tuning is moved to a frequency below channel 2.)

3) Channel Indicator Resetting



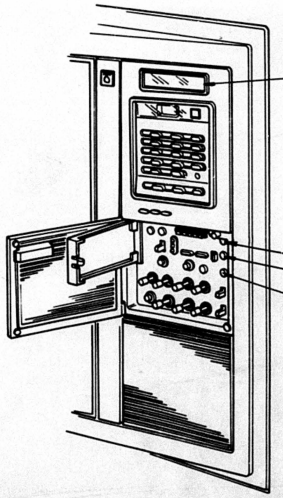
❶ Press the CHANNEL SELECT button.

❷ Confirm the correct channel number by referring to TV program.

❸ Adjust the channel display by pressing the CHANNEL NUMBER buttons.

1 Button: Changes the number of 1-digit, (increase 0 thrugh 9 every one press)
10 Button: Changes the number of 10-digit. (increase one through 9 and disindicated every one press)

1-3. CLOCK ADJUSTMENT

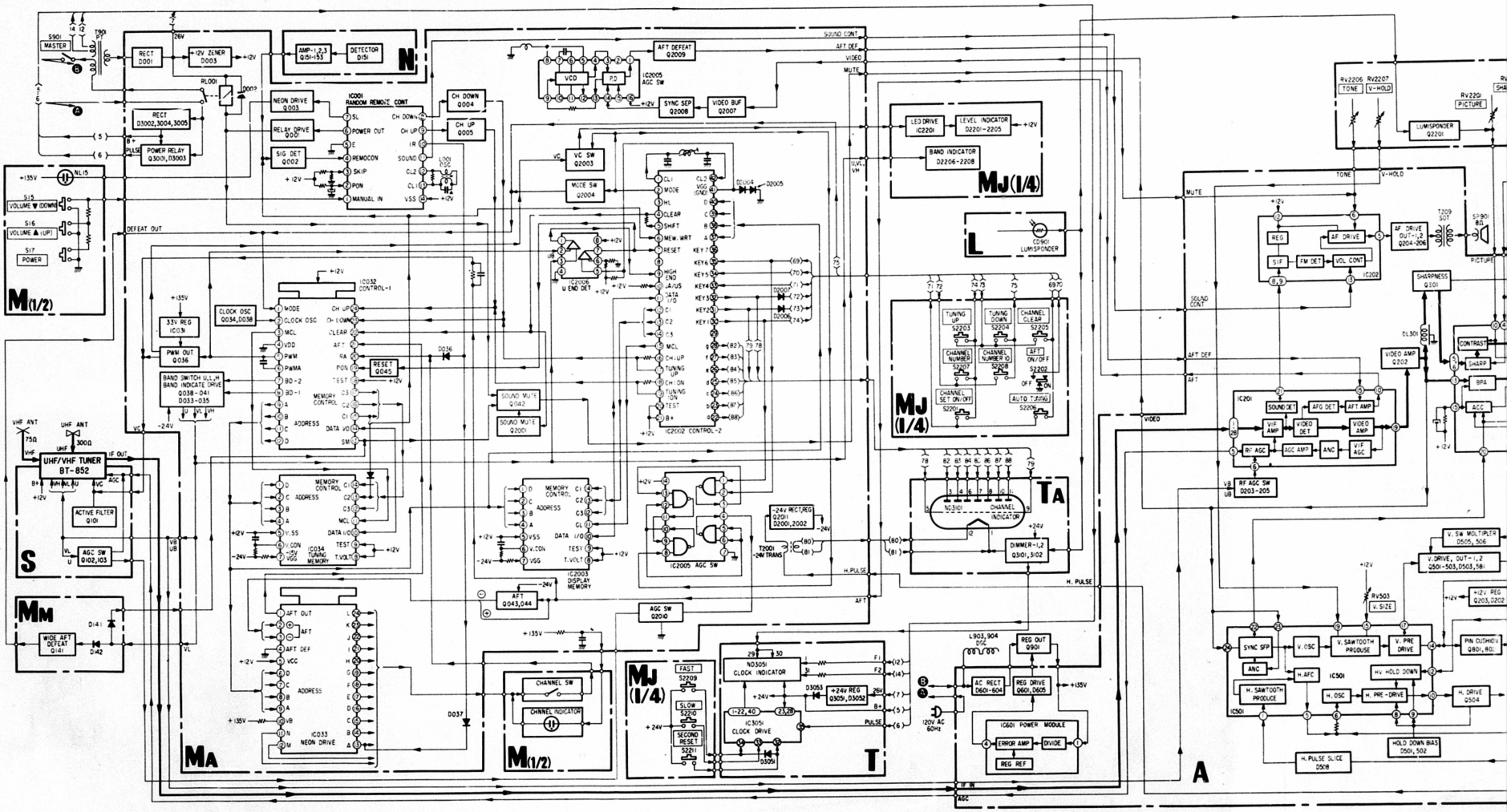


If the ac power supply is interrupted, the Time Indicator will blink displaying "AM 12:00".

❶ Adjust the time by pressing the CLOCK-FAST button or the CLOCK-SLOW button.
CLOCK-FAST button
CLOCK-SLOW button

❷ Press the CLOCK-SECOND RESET button and keep it press. Release the CLOCK-SECOND RESET button simultaneously with the TV or telephone time signal.

1-4. BLOCK DIAGRAM


M(1/2)
MJ(1/4)
L
MJ (1/4)
TA
S
MM
MA
M(1/2)
MJ (1/4)
T
A
N
UHF/VHF TUNER BT-852
IC2001 U END DET
IC2002 CONTROL-2
IC2003 DISPLAY MEMORY
IC2005 AGC SW
IC2004 TUNING MEMORY
IC2032 CONTROL-1
IC2033 NEON DRIVE
IC2005 AGC SW
IC201
IC202
IC501
IC601 POWER MODULE
IC301 CLOCK DRIVE
ND301 CLOCK INDICATOR
ND101 CHANNEL INDICATOR
IC201 SOUND IF
IC202 SIF FM DET VOL CONT
AF DRIVE
LUMISPONDER Q2201
CD901 LUMISPONDER
VIDEO AMP Q202
SHARPNESS Q101
CONTRAST
SHARP
BPF
ACC
RF AGC SW Q203-205
V. SAWTOOTH PRODUCE
V. OSC
V. PRE DRIVE
H. OSC
H. PRE-DRIVE
H. DRIVE Q504
H. AFC
H. SAWTOOTH PRODUCE
H. PULSE SLICE Q508
HOLD DOWN BIAS D501, 502
PIN CUSHION Q601, 602
V. SW MOLTIPLEX D505, 506
V. DRIVE, OUT-1,2 Q501-503, D503, 581
V. SIZE
+12V REG Q203, D202
REG OUT Q901
REG DRIVE Q601, D605
AC RECT D601-604
+135V
+24V REG Q305, D3052
-24V RECT, REG Q201 D2001, 2002
T201 -24V TRANS
DIMMER-1,2 Q301, 302
AFT Q043, 044
AGC SW Q201
WIDE AFT DEFEAT Q141
ACTIVE FILTER Q101
AGC SW Q102, 103
SOUND MUTE Q2042
SOUND MUTE Q2001
PWM OUT Q036
33V REG IC031
RESET Q045
CLOCK OSC Q034, D038
BAND SWITCH U,L,H BAND INDICATE DRIVE Q038-041 D033-035
RELAY DRIVE Q001
SIG DET Q002
NEON DRIVE Q003
CH DOWN Q004
CH UP Q005
VG SW Q2003
MODE SW Q2004
AFT DEFEAT Q2009
SYNC SEP Q2008
VIDEO BUF Q2007
LED DRIVE IC220
LEVEL INDICATOR D220-225
BAND INDICATOR D2206-2208
RECT D3002, 3004, 3005
POWER RELAY Q301, D3003
RECT D001
+12V ZENER D003
AMP-1,2,3 Q151-153
DETECTOR D151
S901 MASTER
S15 VOLUME ▼ (DOWN)
S16 VOLUME ▲ (UP)
S17 POWER
NL15
RV2206 TONE
RV2207 V-HOLD
RV2201 PICTURE
T209 SOT
SP901 8Ω
PICTURE
TUNING UP S2203
TUNING DOWN S2204
CHANNEL CLEAR S2205
CHANNEL NUMBER S2207
CHANNEL NUMBER S2208
AFT ON/OFF S2202
CHANNEL SET ON/OFF S2201
AUTO TUNING S2206
FAST S2209
SLOW S2210
SECOND RESET S2211
CHANNEL SW
CHANNEL INDICATOR
VHF ANT 75Ω
UHF ANT 300Ω
IF OUT
D036
D037
D141
D142
D2004
D2005
D2006
D2007
D2008
D2009
D2010
D2011
D2012
D2013
D2014
D2015
D2016
D2017
D2018
D2019
D2020
D2021
D2022
D2023
D2024
D2025
D2026
D2027
D2028
D2029
D2030
D2031
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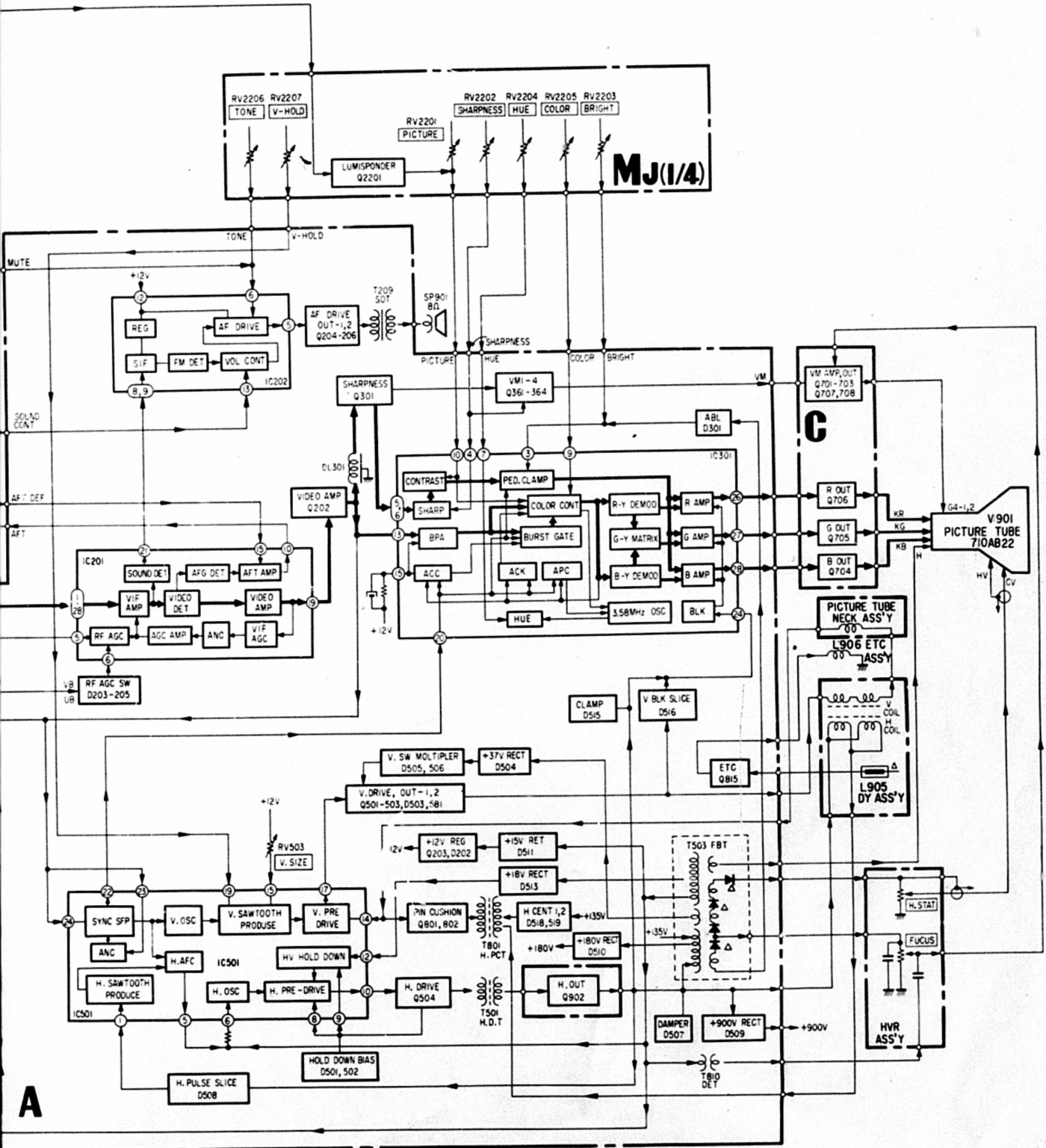
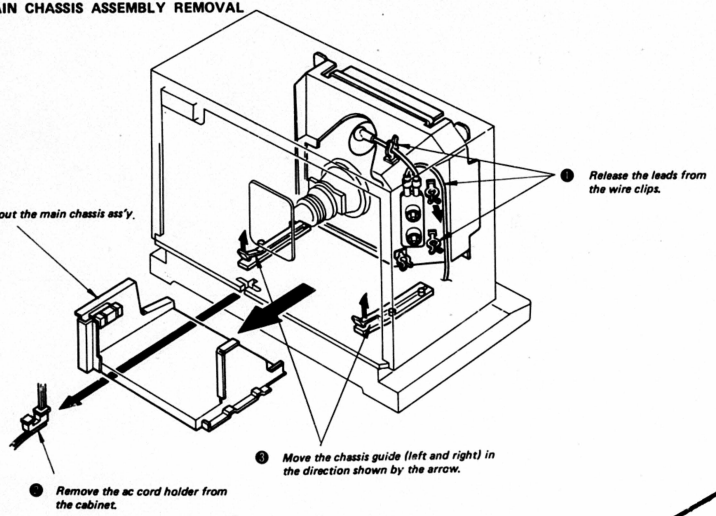
D2040
D2041
D2042
D2043

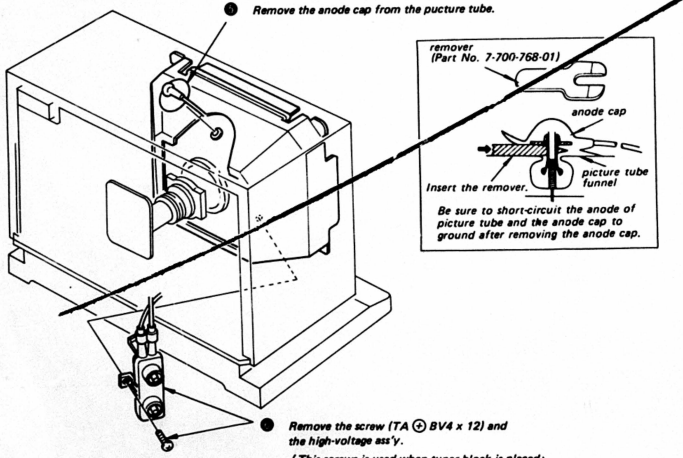

RV2206 TONE
RV2207 V-HOLD
RV2201 PICTURE
RV2202 SHARPNESS
RV2204 HUE
RV2205 COLOR
RV2203 BRIGHT
LUMISPONDER Q2201
MJ(1/4)
MUTE
+12V
REG
AF DRIVE
AF DRIVE OUT-1,2 Q204-206
T209 SOT
SP901 8Ω
SIF
FM DET
VOL CONT
IC202
SHARPNESS Q301
VM1-4 Q361-364
ABL D301
SOUND CONT
AFT DET
AFT
DL301
VIDEO AMP Q202
CONTRAST
PED. CLAMP
SHARP
COLOR CONT
BURST GATE
ACK
APC
BPA
ACC
HUE
3.58MHz OSC
R-Y DEMOD
G-Y MATRIX
B-Y DEMOD
R AMP
G AMP
B AMP
BLK
IC301
IC201
SOUND DET
AFC DET
AFT AMP
VIF AMP
VIDEO DET
VIDEO AMP
RF AGC
AGC AMP
ANC
VIF AGC
RF AGC SW D203-205
VB
UB
C
VM AMP, OUT Q701-703 Q707,708
R OUT Q706
G OUT Q705
B OUT Q704
KR
KG
KB
H
HV
CV
G4-1,2
V901 PICTURE TUBE 710AB22
PICTURE TUBE NECK ASS'Y
L906 ETC ASS'Y
V COIL
H COIL
L905 DY ASS'Y
CLAMP D515
V BLK SLICE D516
ETC Q815
V. SW MOLTIPLER D505, 506
+37V RECT D504
V. DRIVE, OUT-1,2 Q501-503, D503, 581
RV503 V. SIZE
+12V REG Q203, D202
+15V RET D511
+18V RECT D513
T503 FBT
H. STAT
FUCUS
HVR ASS'Y
SYNC SEP
V. OSC
V. SAWTOOTH PRODUSE
V. PRE DRIVE
PIN CUSHION Q801, 802
H CENT 1,2 D518,519
+135V
+180V RECT D510
+180V
T801 H.PCT
ANC
H.AFC
IC501
HV HOLD DOWN
H. SAWTOOTH PRODUCE
H. OSC
H. PRE-DRIVE
H. DRIVE Q504
T501 H.D.T
H. OUT Q902
DAMPER D507
+900V RECT D509
+900V
T810 DET
HOLD DOWN BIAS D501, 502
H. PULSE SLICE D508
A

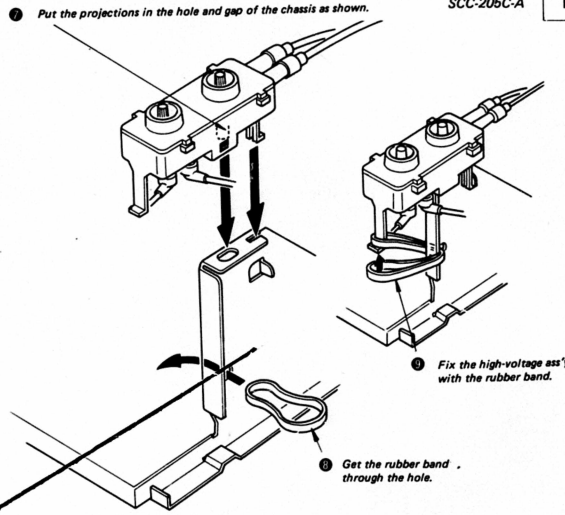
SECTION 2
DISASSEMBLY

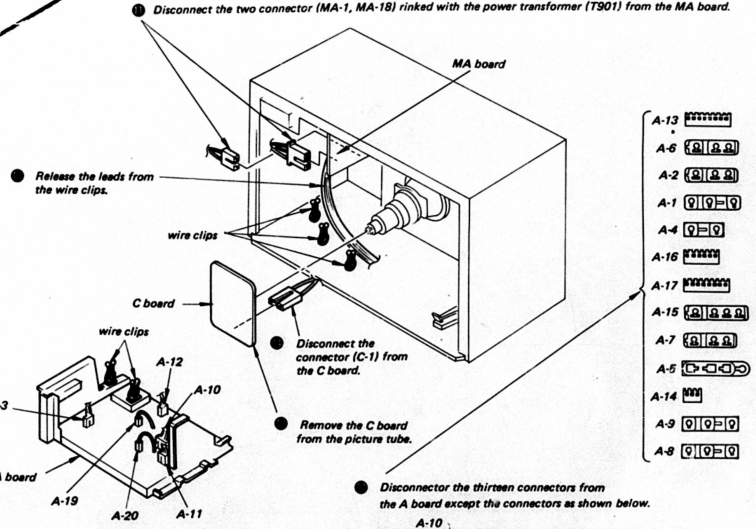
Note: Illustrations on this section are KV-2643R.

2-1. MAIN CHASSIS ASSEMBLY REMOVAL

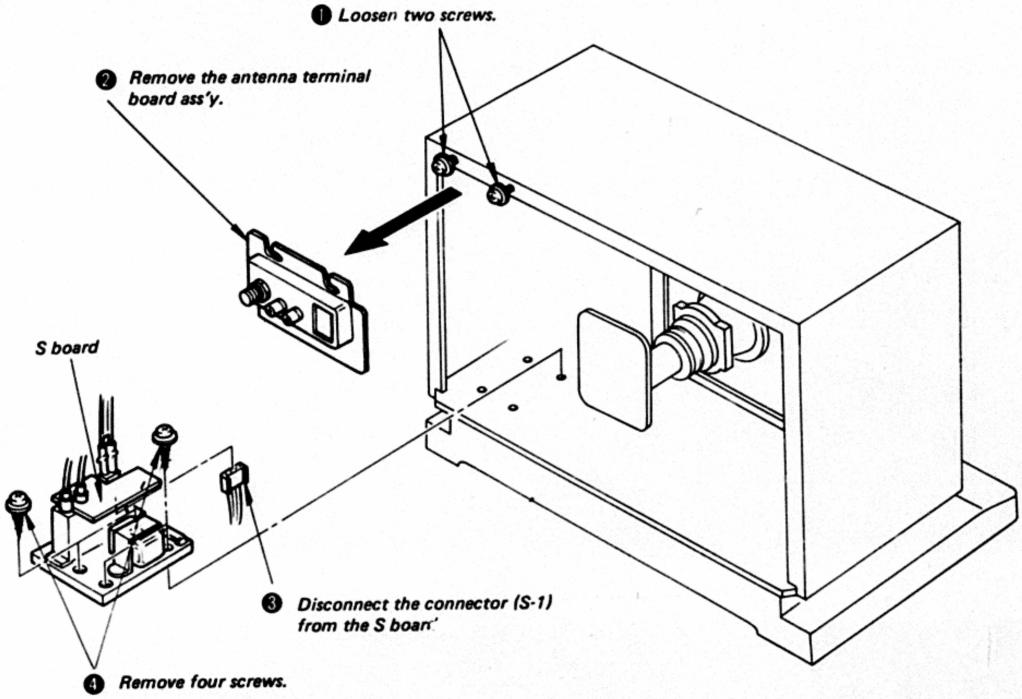

❶ Pull out the main chassis ass'y.
❷ Release the leads from the wire clips.
❸ Move the chassis guide (left and right) in the direction shown by the arrow.
❹ Remove the ac cord holder from the cabinet.

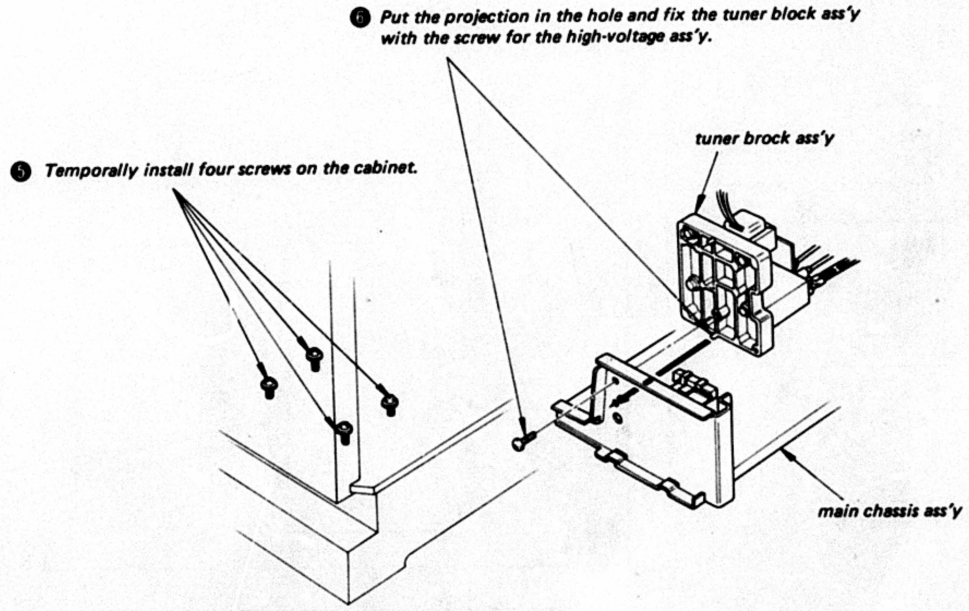

❺ Remove the anode cap from the pucture tube.
remover (Part No. 7-700-768-01)
anode cap
picture tube funnel
Insert the remover.
Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.
❻ Remove the screw (TA ⊕ BV4 x 12) and the high-voltage ass'y.
(This screws is used when tuner block is placed on the chassis.)


❼ Put the projections in the hole and gap of the chassis as shown.
❽ Fix the high-voltage ass'y with the rubber band.
❾ Get the rubber band through the hole.

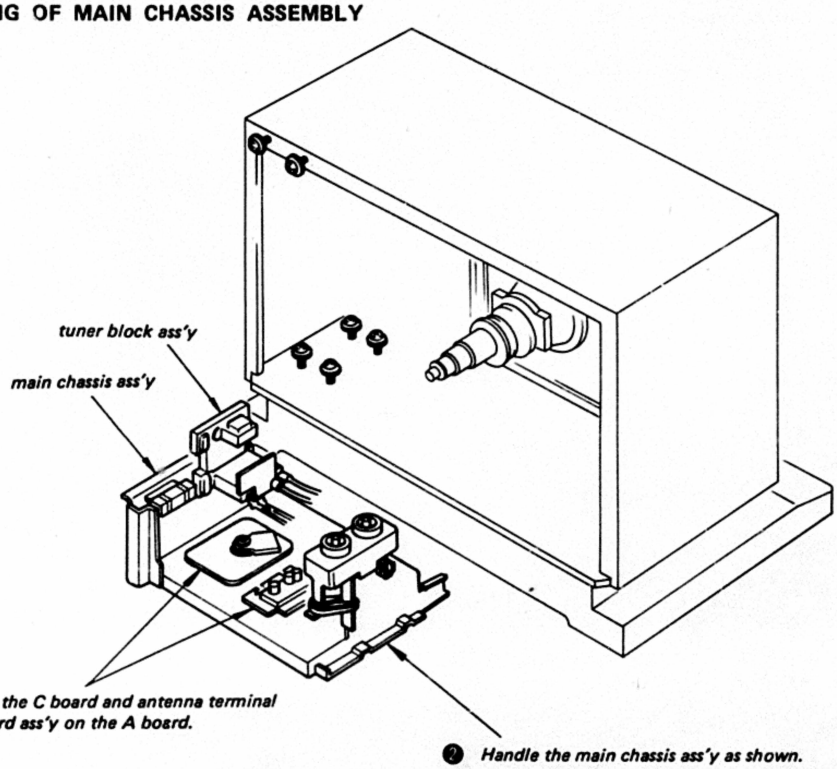


2-2. ANTENNA TERMINAL ASSEMBLY AND TUNER BLOCK ASSEMBLY REMOVAL

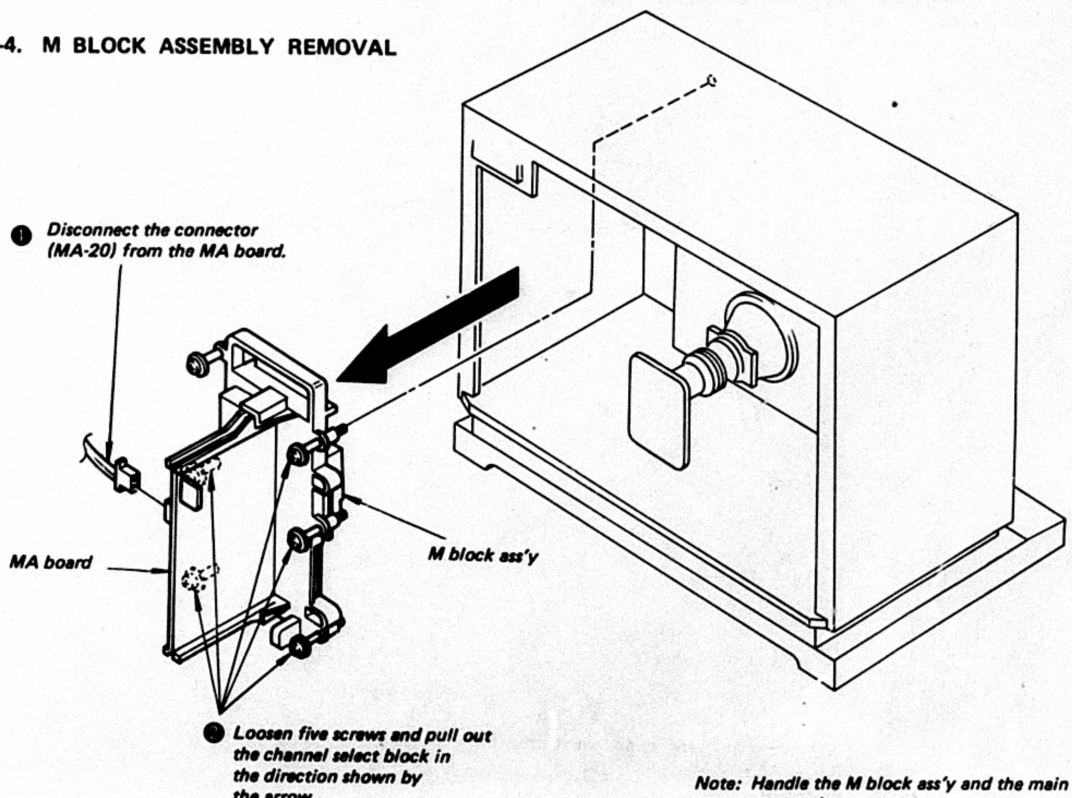

❶ Loosen two screws.
❷ Remove the antenna terminal board ass'y.
S board
❸ Disconnect the connector (S-1) from the S board
❹ Remove four screws.


❻ Put the projection in the hole and fix the tuner block ass'y with the screw for the high-voltage ass'y.
❺ Temporally install four screws on the cabinet.
tuner brock ass'y
main chassis ass'y

2-3. HANDLING OF MAIN CHASSIS ASSEMBLY


tuner block ass'y
main chassis ass'y
❶ Put the C board and antenna terminal board ass'y on the A board.
❷ Handle the main chassis ass'y as shown.

2-4. M BLOCK ASSEMBLY REMOVAL

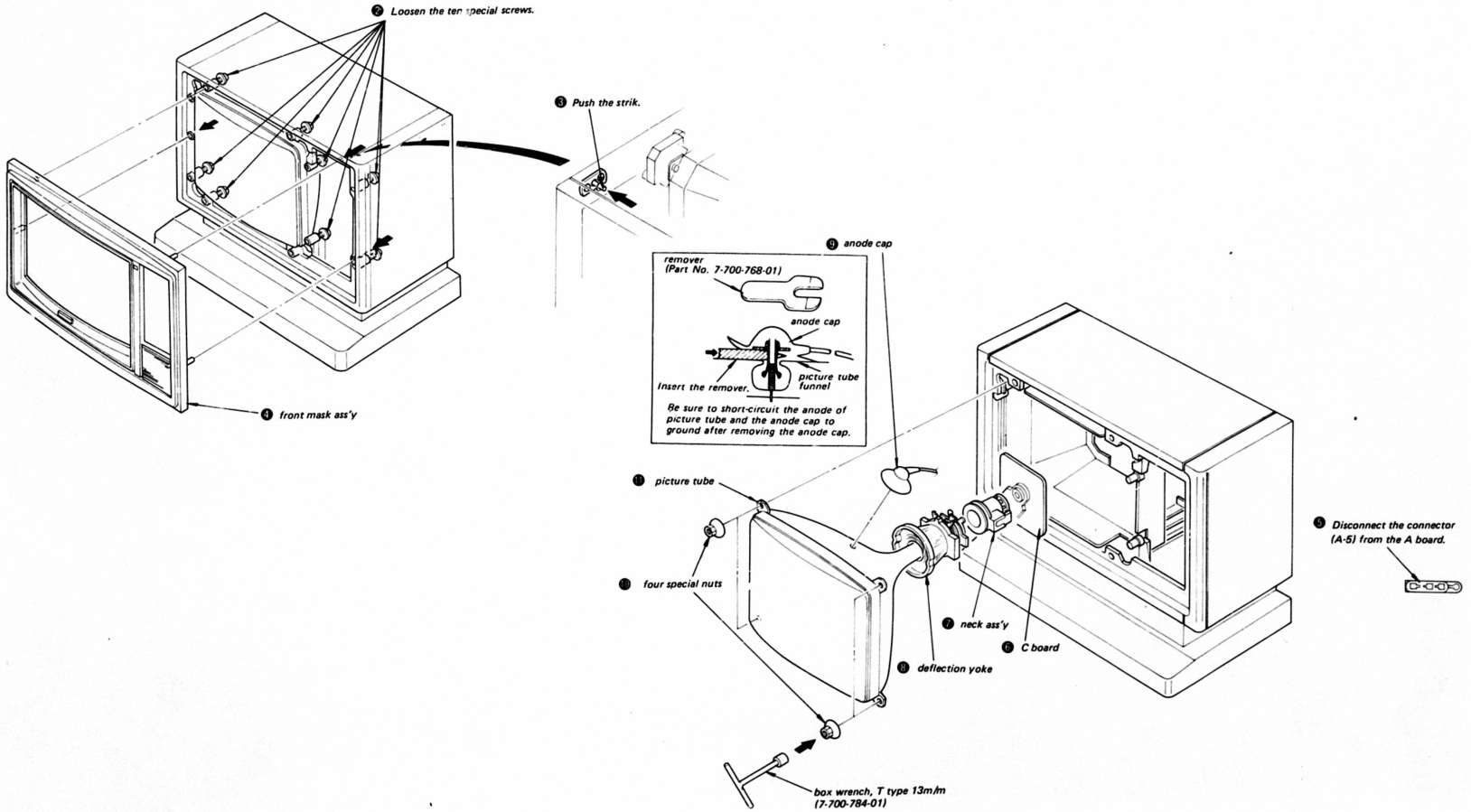

❶ Disconnect the connector (MA-20) from the MA board.
MA board
M block ass'y
❷ Loosen five screws and pull out the channel select block in the direction shown by the arrow.

Note: Handle the M block ass'y and the main chassis ass'y separately.

SCC-205B-A
SCC-205C-A
KV-2643R
KV-2644R

2-5. PICTURE TUBE REMOVAL

❶ *Perform the M block assembly removal on page 13.*


❷ Loosen the ten special screws.
❸ Push the strik.
❹ front mask ass'y
❾ anode cap
remover
(Part No. 7-700-768-01)
anode cap
picture tube funnel
Insert the remover.
Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.
❶ picture tube
❿ four special nuts
⓫ neck ass'y
⓬ C board
⓭ deflection yoke
box wrench, T type 13m/m
(7-700-784-01)
❺ Disconnect the connector (A-5) from the A board.

2-6. CONNECTION OF COLOR TELEVISION TEST JIG

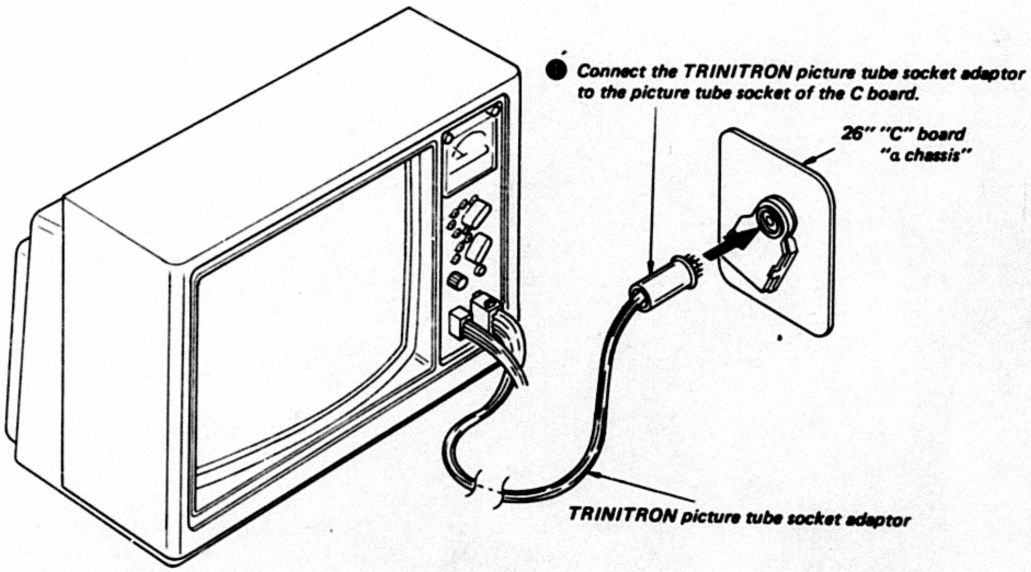
Note:

- The color television test jig shown in this instruction are made by ZENITH corp. However, ones made by the other marker are much used in fields, so the connections of the color television test jig are only reference.
- The connectors used in the 26" Service Jig Kit are especially made to coincide with the only SONY color television set. The cables for the color television test jig have no connector so that the proper connector can be assembled.

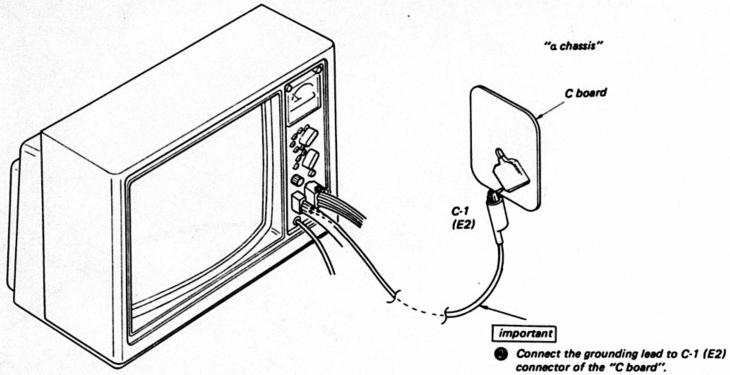
Preparation

1) Connect the two connectors (MA-1, MA-18) to the MA board (from the power transformer; T901).
2) Connec the seven connectors (A-1, A-4, A-13, A-14, A-15, A-16, A-17) to the A board (from the M block assembly).
3) Connect the connector (S-1) to the S board.

Connection of TRINITRON Picture Tube Socket Adaptor


● Connect the TRINITRON picture tube socket adaptor to the picture tube socket of the C board.
26" "C" board "a chassis"
TRINITRON picture tube socket adaptor

Connection of Grounding Lead

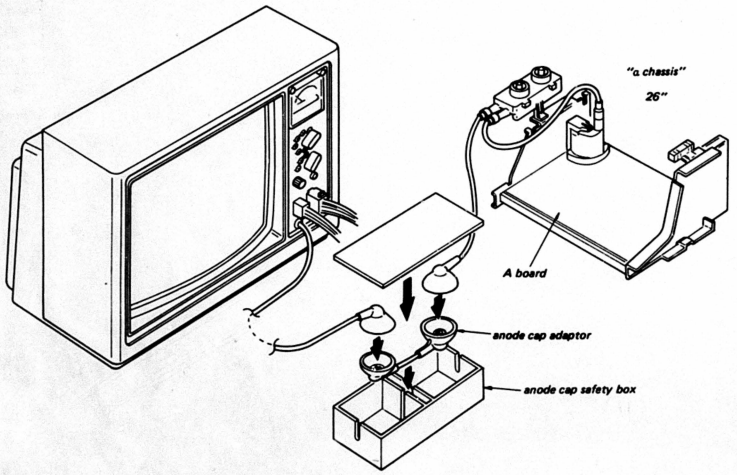


important

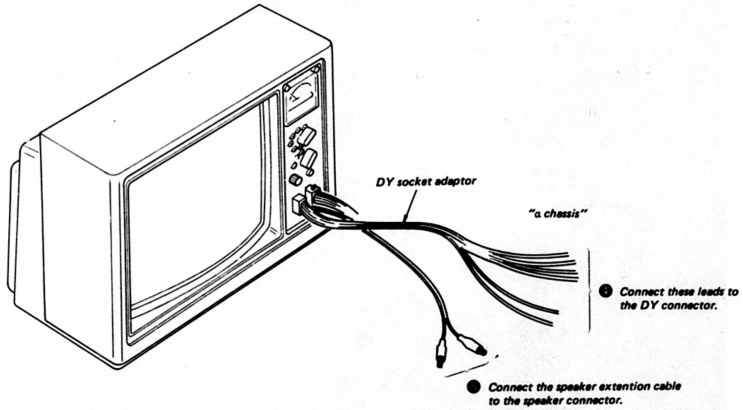
● Connect the grounding lead to C-1 (E2) connector of the "C board". (Be sure to connect grounding lead.)

Connection of Anode Cap Adaptor

● Set the Anode Cap Adaptor as shown below.

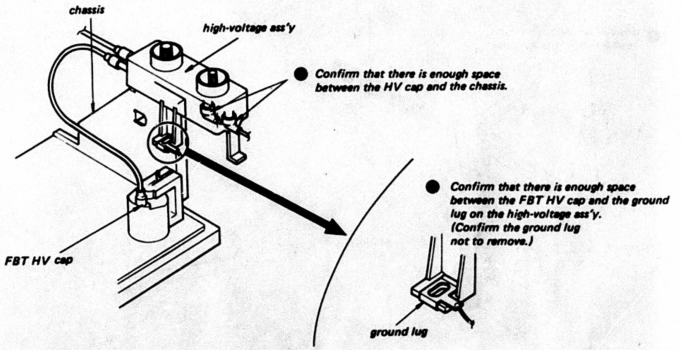


Connection of DY Socket Adaptor and Speaker Extention Cable


DY socket adaptor
"⏚ chassis"
● Connect these leads to the DY connector.
● Connect the speaker extention cable to the speaker connector.

Final Confirmation

Note:
- Set the DY impedance selector plug to the position where the picture is larger than the nomal size picture (horizontal and vertical).
- When changing the DY impedance selector plug, turn off the power switch.
- Use this kit at 28kV or less HV.


chassis
high-voltage ass'y
● Confirm that there is enough space between the HV cap and the chassis.
● Confirm that there is enough space between the FBT HV cap and the ground lug on the high-voltage ass'y. (Confirm the ground lug not to remove.)
FBT HV cap
ground lug
● Confirm that there is no connector to disconnect from the main chassis ass'y and M block ass'y.

SECTION 3
SETUP ADJUSTMENT

(1) The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
(2) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows:
PICTURE control ... fully clockwise (maximum)
BRIGHT control..... fully clockwise (maximum)
LUMISPONDER switch . . . . . OFF
AFT switch . . . . . .ON

Make the following adjustments in the order given.

1. Beam Landing
2. Focus
3. Convergence
4. White Balance

Note: The Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser

3-1. BEAM LANDING

Preparation:
- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Set purity control as shown in Fig. 3-1.
3. Slide deflection yoke as far forward as it will go.
4. Position neck assembly as shown in Fig. 3-2.
5. Disconnect leads ⑥ and ⑦ on the C board.
6. Adjust purity control to center vertical red band as shown in Fig. 3-3.
7. Slide deflection yoke back for a uniform red screen.
8. Check green and blue rasters for uniformity by performing the same way as steps 5, 6 and 7.
   To get a uniform green screen, connect lead ⑦ and disconnect leads ⑥ and ⑧ on the C board.
   To get a uniform blue screen, connect lead ⑧ and disconnect leads ⑥ and ⑦ on the C board.
   After these checks, connect the leads ⑥, ⑦ and ⑧.
9. Tighten the deflection yoke screw.
10. Check if mislanding appears at corners a – d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
11. Confirm that beam landing is correct when the receiver is faced in all directions.

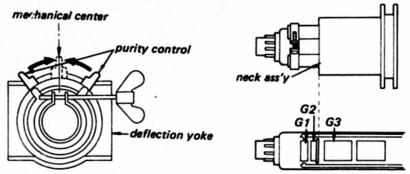


Fig. 3-1

Fig. 3-2

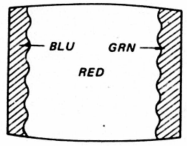


Fig. 3-3

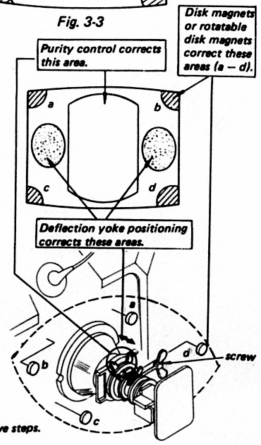
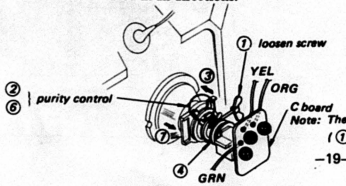


Fig. 3-4



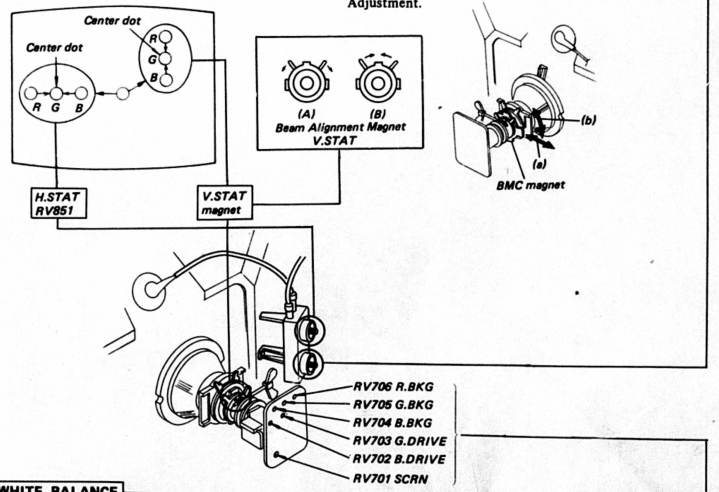
3-2. FOCUS

Adjust FOCUS control for best focus.

3-3. CONVERGENCE

Preparation:
- Before starting this adjustment, check FOCUS, H. SIZE and V. SIZE adjustments.
- Turn BRIGHT control fully counterclockwise.
- Feed in a dot pattern.

(1) Horizontal and Vertical Static Convergence



If the blue dot does not coincide with the red and green dots:
Move BMC magnet (a) to correct insufficient H. static convergence.
Rotate BMC magnet (b) to correct insufficient V. static convergence.
After either adjustment, repeat Beam Landing Adjustment.

3-4. WHITE BALANCE

Feed in a cross-hatch pattern.

1. Turn BRIGHT control and PICTURE control fully counterclockwise.
2. Turn RV702 (B. DRIVE) and RV703 (G. DRIVE) fully clockwise.
3. Set RV704 (B.BKG), RV705 (G.BKG) and RV706 (R.BKG) to mechanical center.
4. Turn RV701 (SCRN) slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning RV701. Do not turn a BKG control for this color.
5. Adjust the other two BKG controls for best white balance (neutral gray) of faint cross-hatch.
6. Turn BRIGHT control fully clockwise and set PICTURE control fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
7. Repeat Steps 1 through 6 several times.

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown in Fig. 3-5.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

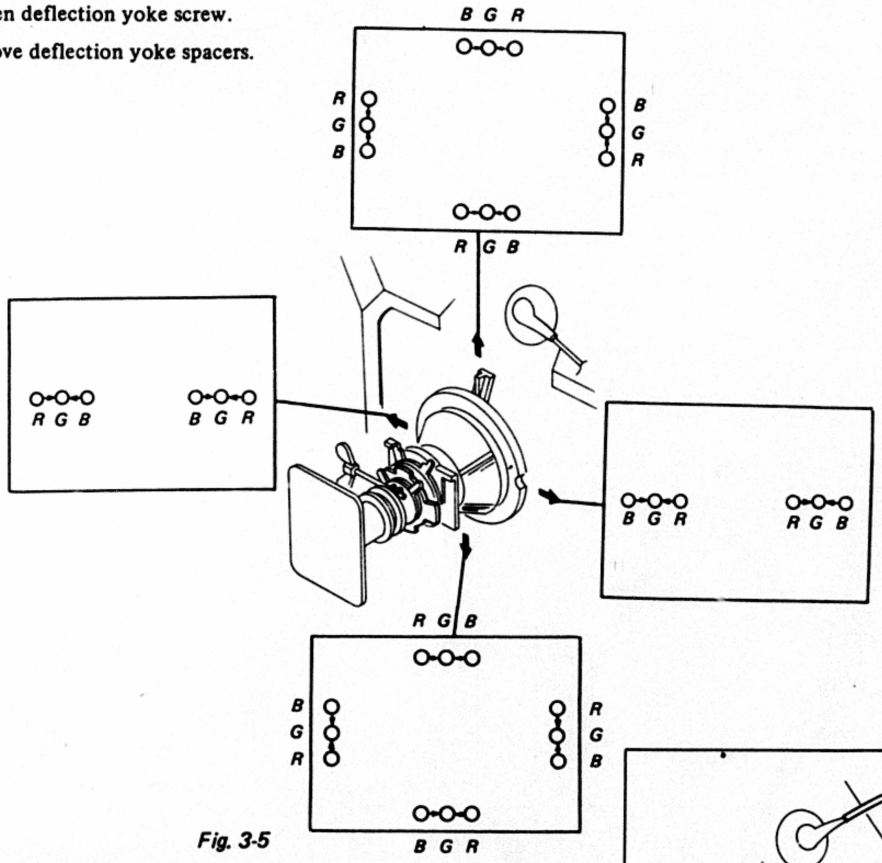
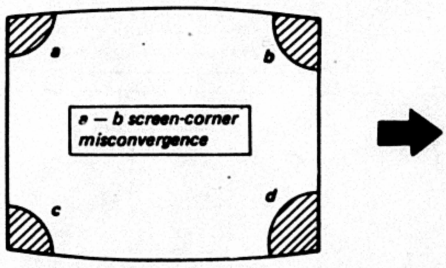
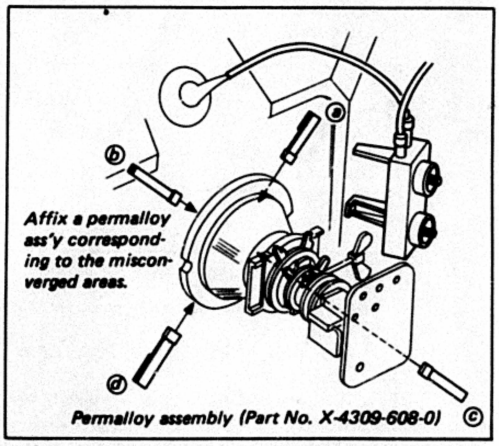


Fig. 3-5

(3) Corner Convergence





(4) Adjust the connection of the VTC connector when there is the misconvergence as shown in the figure.
The variety of compensation (L1 or L2) is increase in order of 1, 2, 3.
1 < 2 < 3

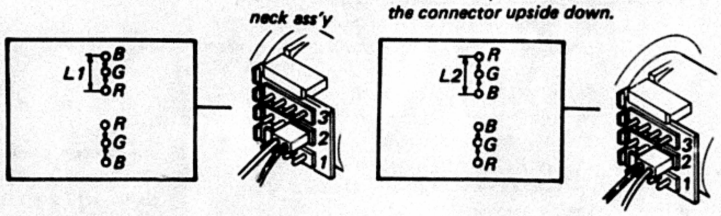


Fig. 3-6

SECTION 4
CIRCUIT ADJUSTMENTS

Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Voltmeter (VOM)
3. Color-bar/pattern generator
4. Variable auto-transformer
5. Isolation transformer
6. Digital multmeter

(2) INPUT SIGNAL

When making these adjustments, supply a cross-hatch, color-bar or an off-air signal.

(3) CONTROL SETTINGS

Controls and switch should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control
HUE control
COLOR control
BRIGHT control
SHARPNESS control
V. HOLD control — Set for best picture.

AFT switch ..... ON

(4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

(5) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
COLOR SYNC H. FREQ SUB BRT ACC R566 ADJUSTMENT SUB CONTRAST AFT VHF AND UHF RF AGC SIF PINCUSHION PHASE AND AMP CHECK AFTER IC601 REPLACE	A Board	22, 23, 24
+4V ADJUSTMENT CLOCK-1 CLOCK-2 RC CLOCK MANU. FREQ	MA Board	25, 26

4-1. A BOARD ADJUSTMENTS

COLOR SYNC

1. Feed in a color-bar signal from the color-bar/ pattern generator.
2. Set the switch and controls as shown below.
   AUTO switch ..... ON
   COLOR control, HUE control ..... mechanical center
   PICTURE control ..... fully clockwise
3. Connect a 27kΩ resistor between the pin 18 and 1 of IC301.
4. Connect a 10kΩ resistor between the cathode of D301 and the +12V line.
5. Short circuit between the pin 16 and 17 of IC301 with a jumper.
6. Adjust CV301 to obtain the stable color picture.
7. Disconnect the 27kΩ and 10kΩ resistors and the jumper.

H. FREQ

1. Tune in a strong off-air signal.
2. Adjust the PICTURE, BRIGHT and V. HOLD controls for the suitable and stable picture.
3. Short circuit between the pin 24 of IC501 and ground with a jumper during this adjustment.
4. Adjust RV501 for the stable picture as shown.

5. Confirm that the stable picture is obtained on other channels.

SUB BRT

1. Tune in an off-air signal.
2. Turn the PICTURE control to fully counterclockwise, and set the BRIGHT control for the suitable picture.
3. Set the AUTO switch to OFF and the COLOR control to fully counterclockwise, so that the mono-chrome picture will appear.
4. Set RV304 for a proper brightness of the picture.
5. Set the PICTURE control for the suitable picture.
6. Confirm that the brightness does not change excessively on other channels.

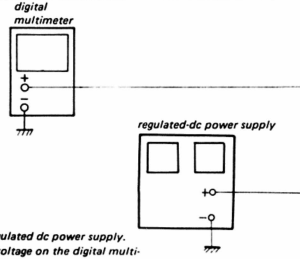
ACC

1. Tune in a strong off-air signal.
2. Set the COLOR and HUE controls to the mechanical center.
3. Set the PICTURE and BRIGHT controls for the suitable picture.
4. Adjust RV307 for a proper color intensity.
5. Confirm the color intensity does not change to excessive color intensity on other channels.

R566 ADJUSTMENT

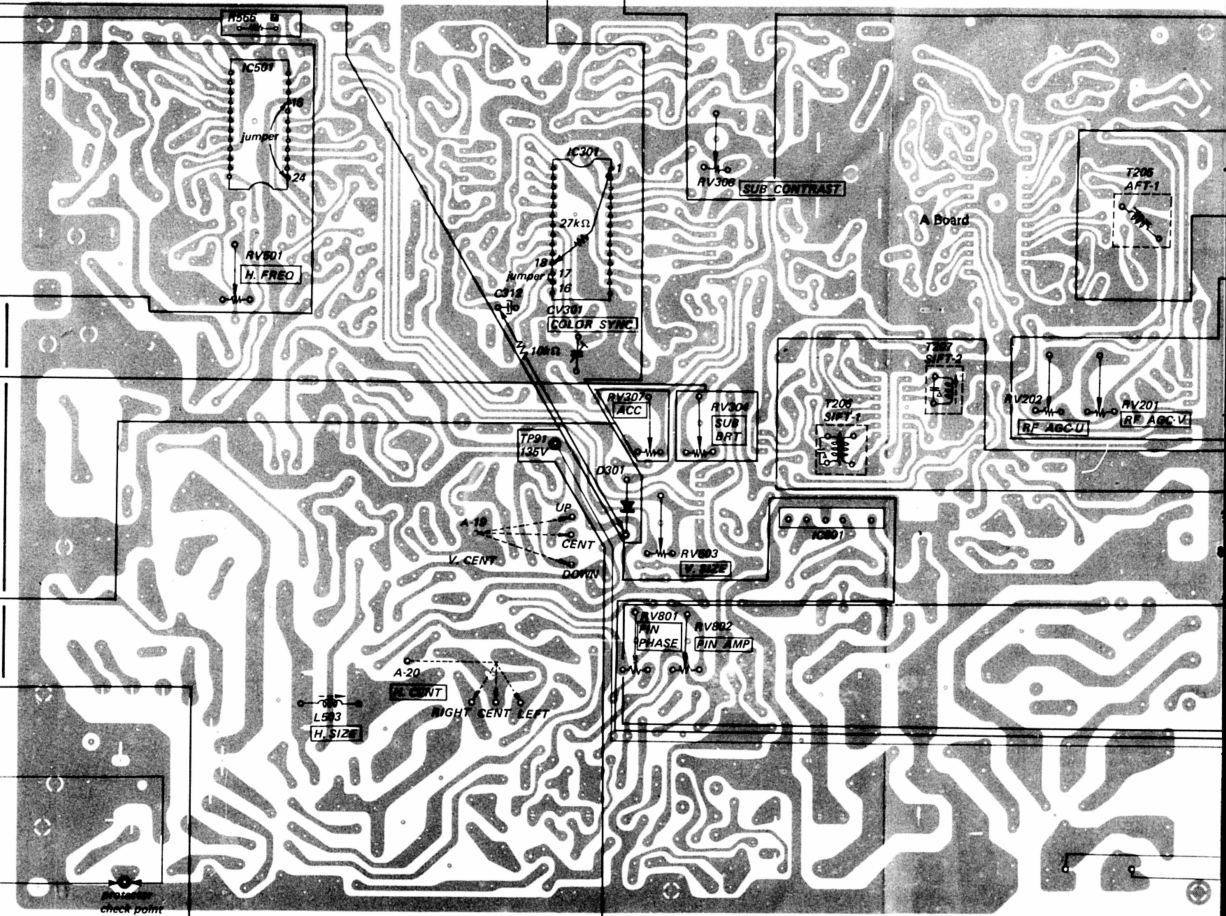
When replacing the following components, make this adjustment.
IC501, D502, R532, R561, R566, C513, R508, R510

1. Connect a regulated dc power supply to the protector check point and supply $21.5^{+0}_{-0.1}$ V dc.
2. When the dc voltage is supplied, confirm that the picture disappears and no sound is heard. (HV hold down circuit operates).
   Note: As soon as HV hold down circuit operates, turn the POWER switch to OFF.
3. Supply $20.5^{+0.1}_{-0}$ V dc to the protector check point, and confirm that the picture does not disappear and sound is heard continuously.
4. If steps 1 through 3 is not satisfied, select a resistance value of R566 and repeat abave steps 1 through 3.
5. Disconnect the regulated dc power supply.
6. Confirm that the voltage on the digital multimeter is 18.2 ± 1.0V dc.



SUB CONTRAST

1. Tune in an off-air signal.
2. Set the PICTURE and BRIGHT controls to the suitable picture.
3. Set AUTO switch to off and turn the COLOR control to counterclockwise, to obtain the mono-chrome picture.
4. Adjust RV308 for the suitable contrast picture.
5. Confirm that contrast does not change excessively on other channels.

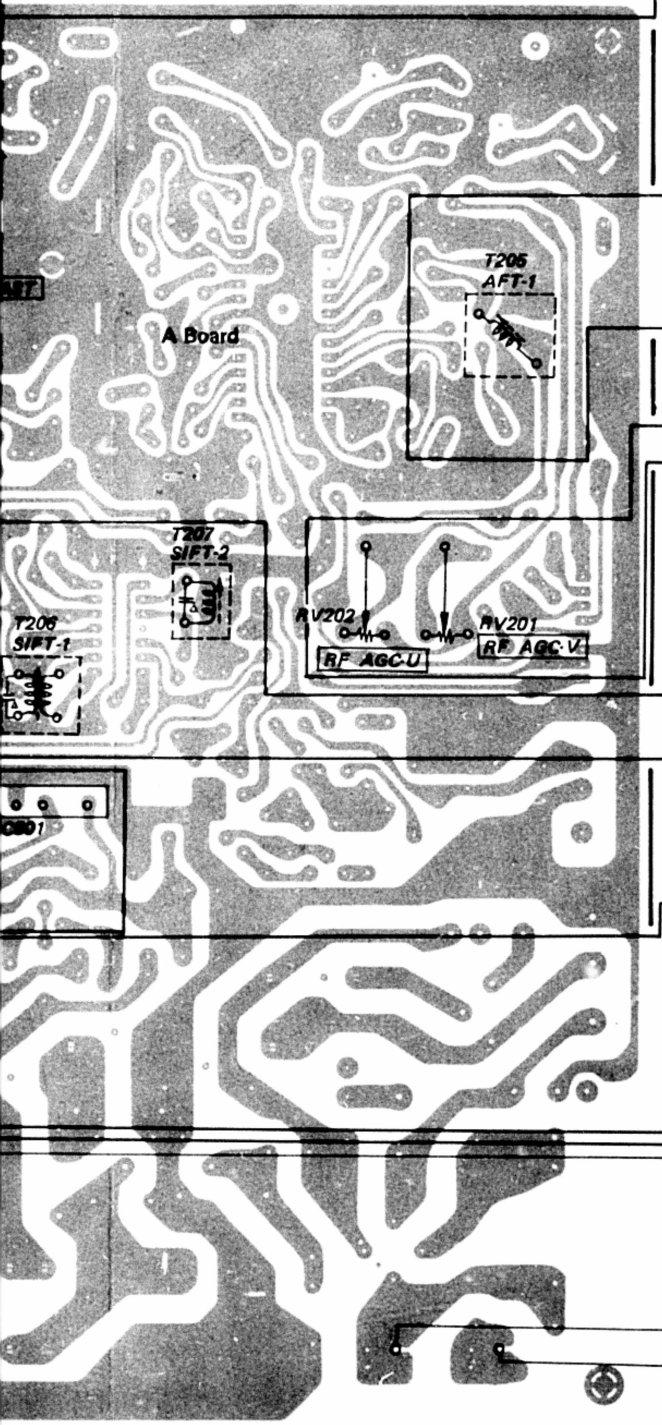


SCC-205B-A
SCC-205C-A
KV-2643R **KV-2643R** SCC-205B-A
KV-2644R **KV-2644R** SCC-205C-A

control to counterclockwise, to obtain the monochrome picture.
4. Adjust RV308 for the suitable contrast picture.
5. Confirm that contrast does not change excessively on other channels.

T controls to

rn the COLOR



AFT

1. Tune in an off-air signal.
2. Set the AFT switch to OFF.
3. Set the CHANNEL SET switch (S2201) to off, obtain 920kHz beat to press the TUNING ▶ (up) switch (S2203).
4. Press the TUNING ◀ (down) switch (S2204) to the point where the 920kHz beat just disappears.
5. Set the AFT switch to ON.
(The 920kHz beat will appear again)
6. Set T205 to the point where the 920kHz beat just disappears.

CHECK

1. Set the AFT switch to OFF.
2. Shift the tunig by pressing the TUNING ▶ (up) or TUNING ◀ (down) button, and confirm that the suitable picture is obtained when AFT switch is set ON.

920kHz beat

AFTER ADJUSTMENT

1. Set the AFT switch ON.
2. Press the TUNING ▶ (up) or TUNING ◀ (down) button.

VHF and UHF RF. AGC

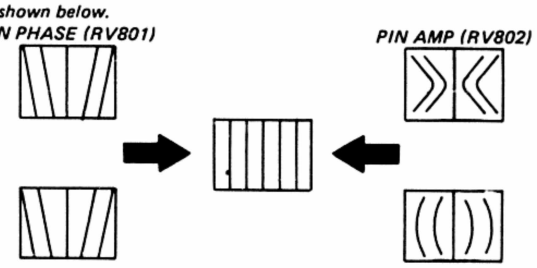
1. Tune in an-off-air signal.
2. Adjust RV201 and RV202 so that snow noise and cross-modulation disapear from the picture.

SIF

1. Tune in an off-air signal.
2. Adjust T206 and T207 for maximum clear-sound.

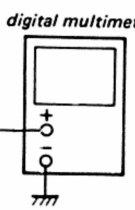
PINCUSHION PHASE and AMP

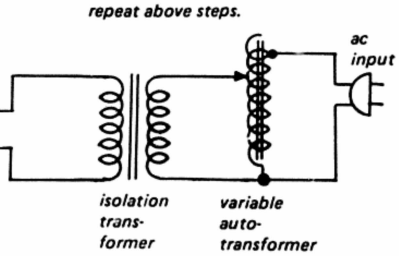
Adjust RV801 and RV802 to make vertical lines straight as shown below.



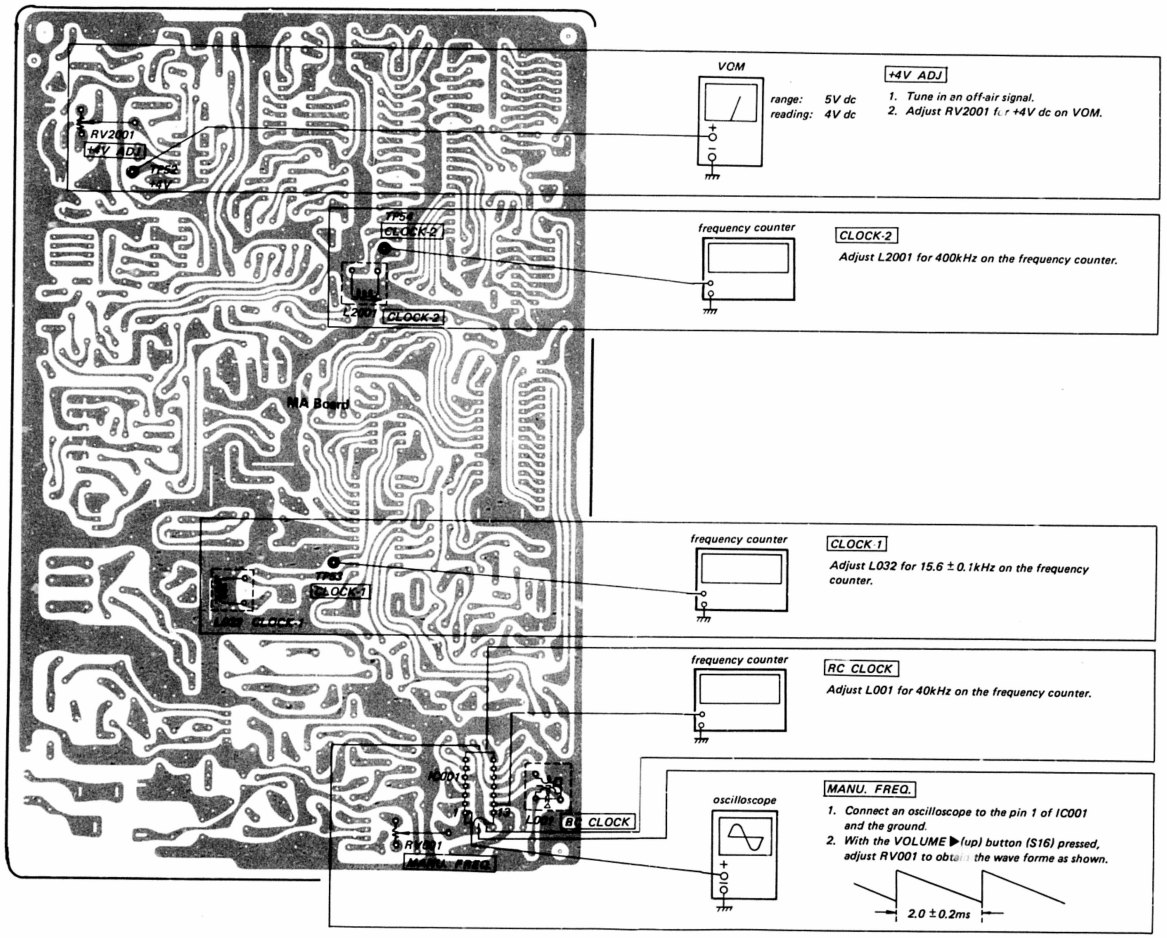
CHECK AFTER IC601 REPLACE

1. Supply 132V ac to the point as shown with variable auto transformer.
2. Tune in an off-air signal.
3. Set the PICTURE and BRIGHT controls to mechanical center and the LUMISPONDER switch to OFF.
4. Confirm the voltage on digital multimeter is less than 136.4V dc.
5. If step 4 is not satisfied, replace IC601 and repeat above steps.





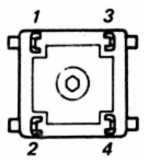
4-2. MA BOARD ADJUSTMENTS

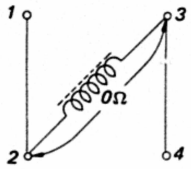


SECTION 5
DIAGRAMS

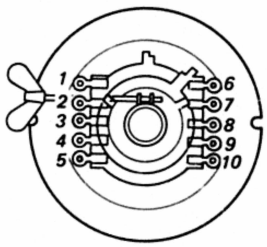
5-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS

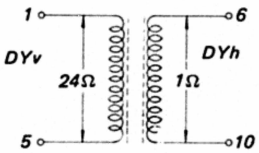
L503 HWC



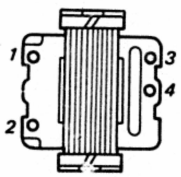


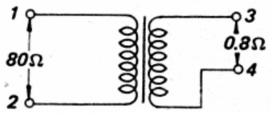
L905 DY



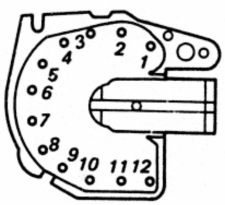


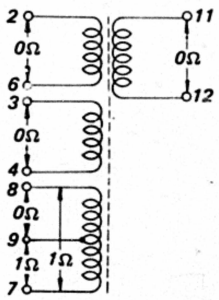
T209 SOT



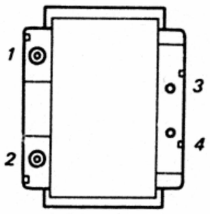


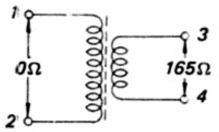
T503 FBT



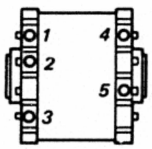


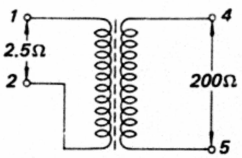
T801 H. PCT



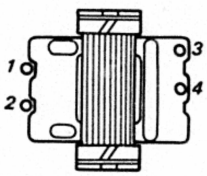


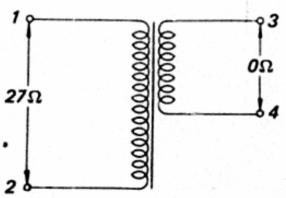
T810 DFT





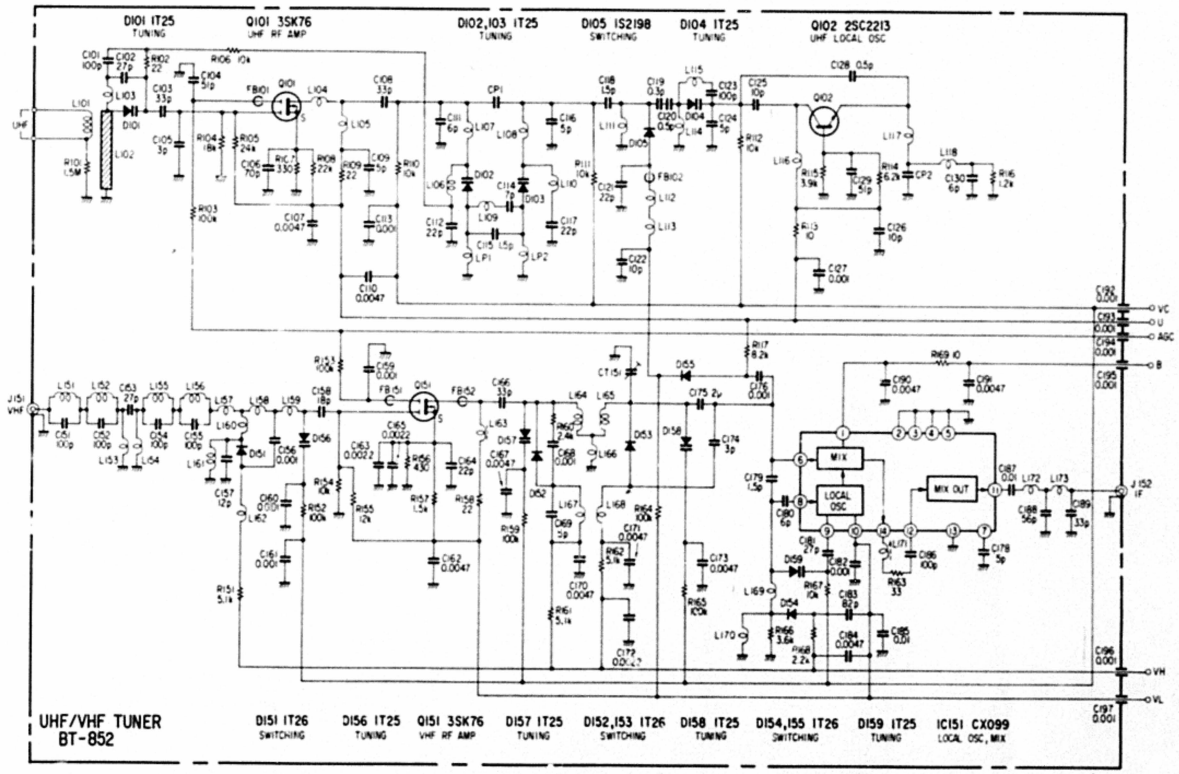
T501 HDT





• DC resistance measurements shown with coils and transformers disconnected from circuit.

5-2. VHF AND UHF TUNER SCHEMATIC DIAGRAMS – BT-852 –



Note:

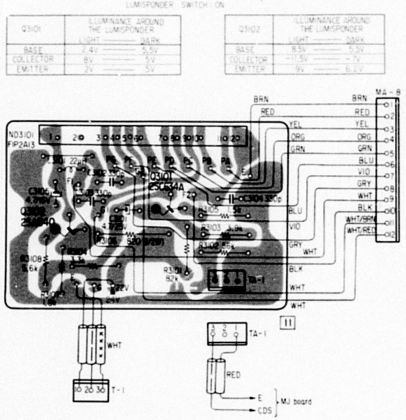
- Tuner reference numbers are not included in the Electrical Parts List (Page 59 to 67).

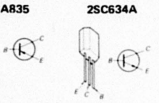
5-3. MOUNTING DIAGRAMS

– Conductor Side –

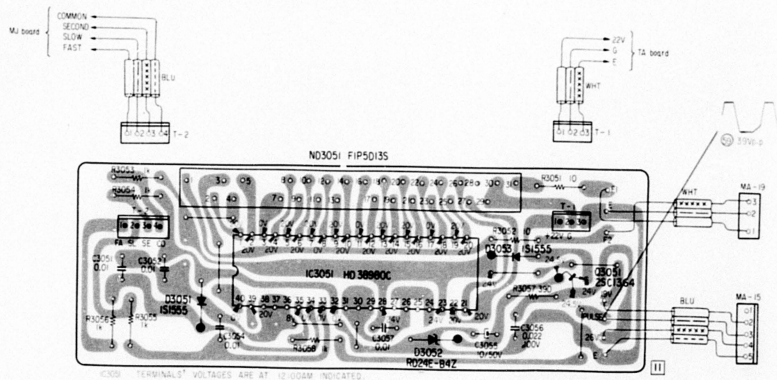
[WIDE AFT DEFEAT] **MM** [DETECTOR] **N** [CHANNEL INDICATOR] **TA** **T** [CLOCK DRIVE]

– TA Board –

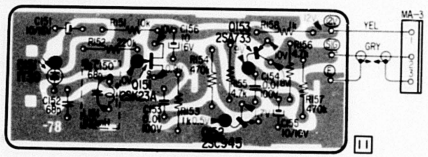


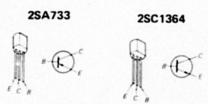


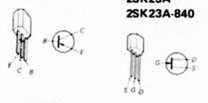
– T Board –

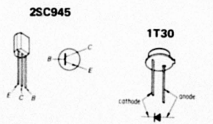


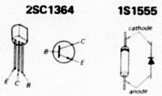
– N Board –

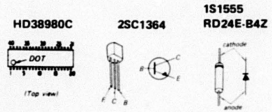




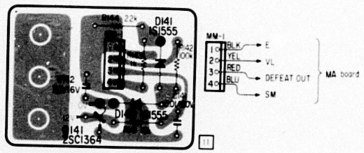






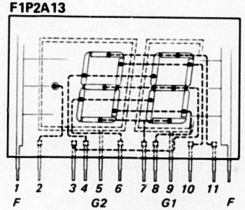


– MM Board –



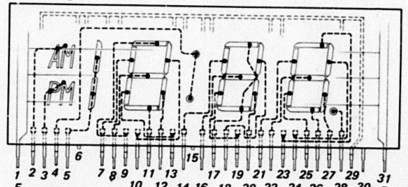
Note: ● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.

ND3101 F1P2A13



(front view)

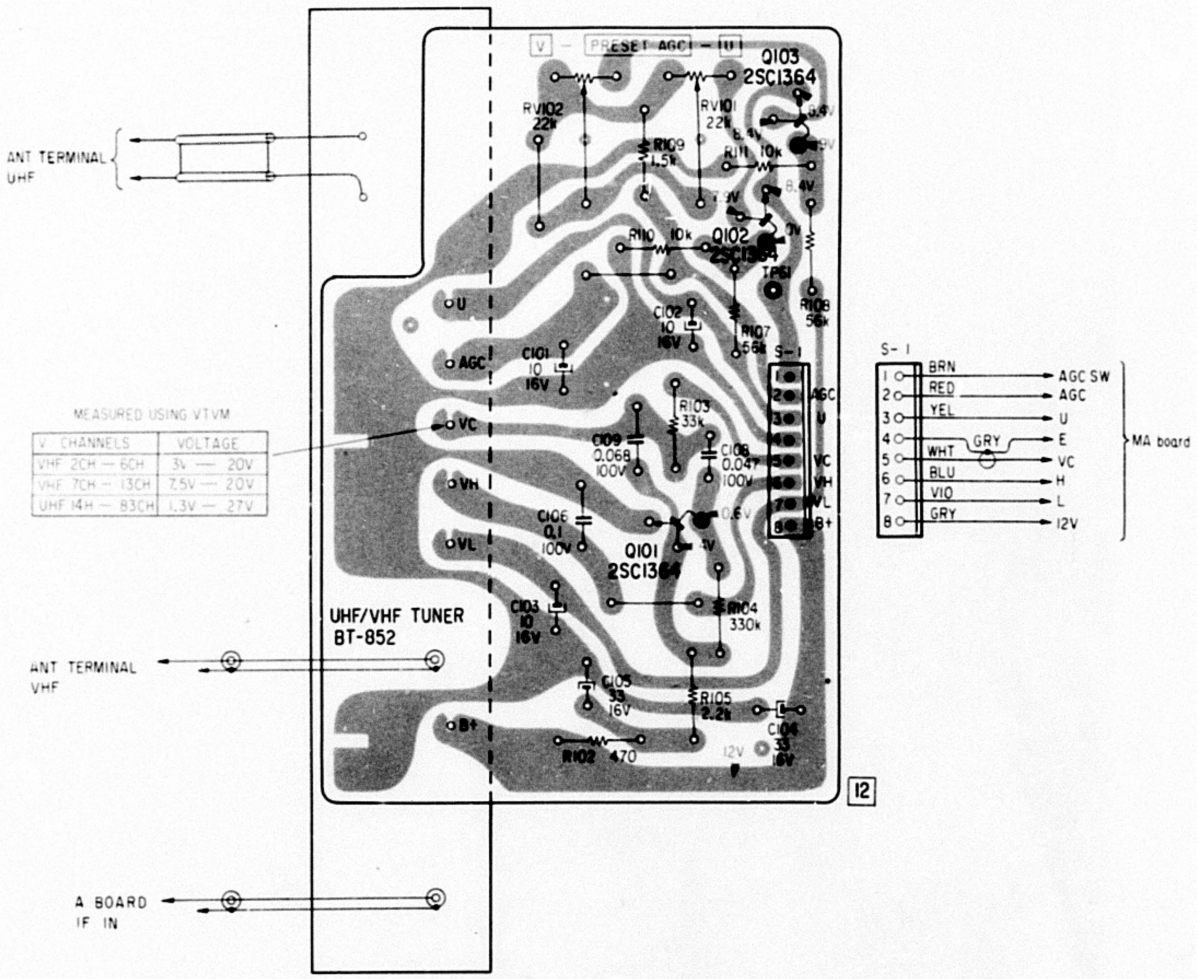
ND3051 F1P5D13S



(front view

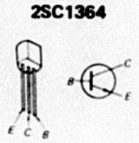
I J K L

– S Board –

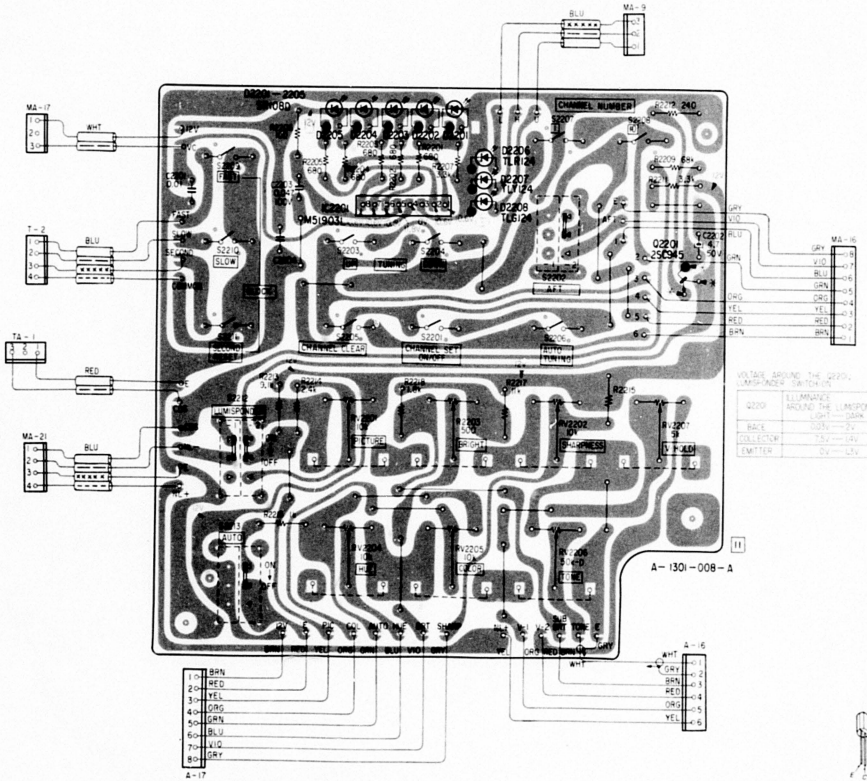


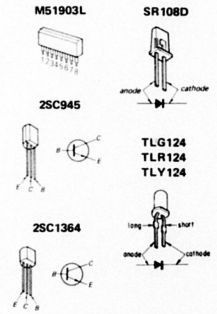
Note: ● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.

2SC1364



– MJ Board –



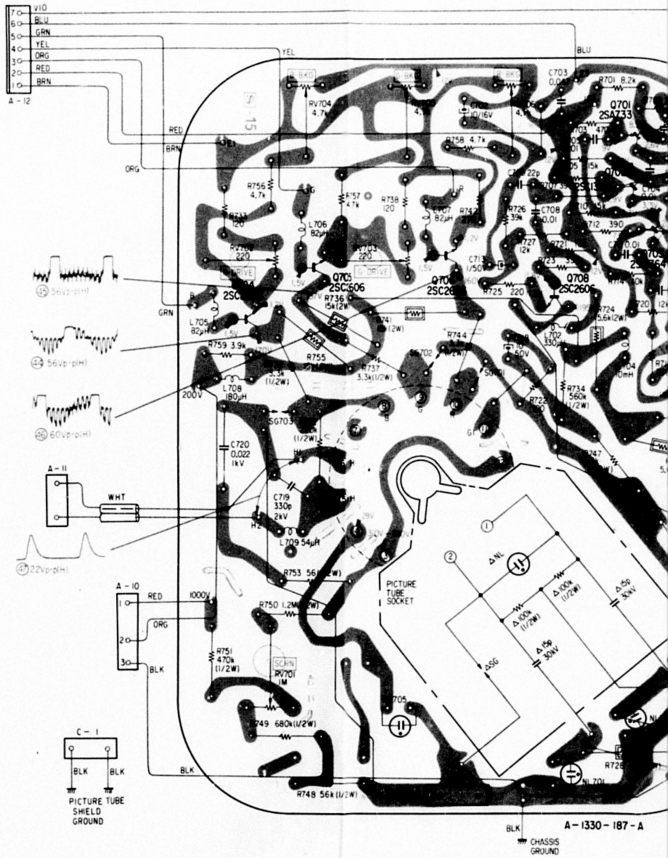


Note: ● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.

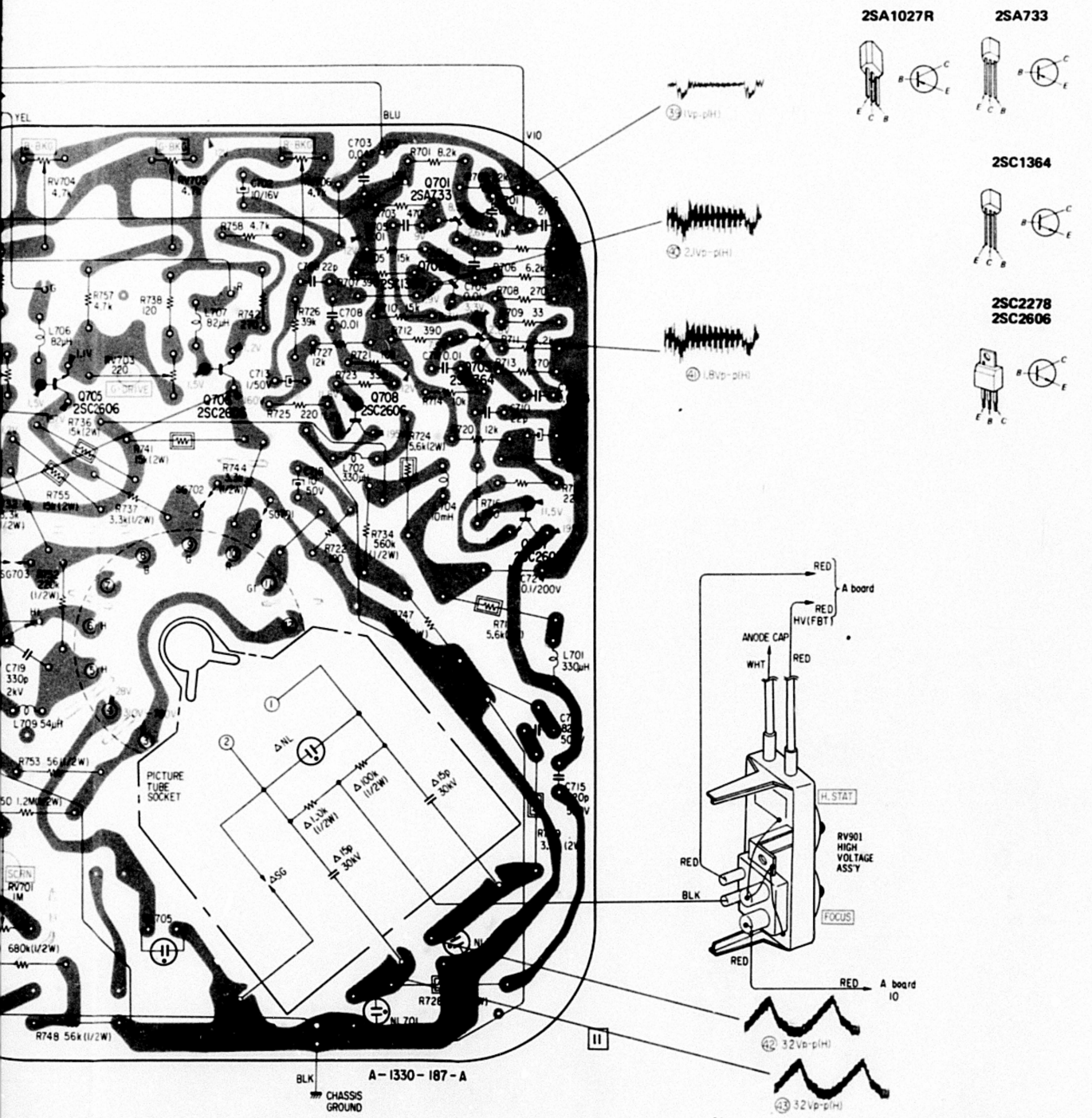
KV-2643R
KV-2644R
SCC-205B-A
SCC-205C-A

C [R.G.B OUT, VM]

– C Board –

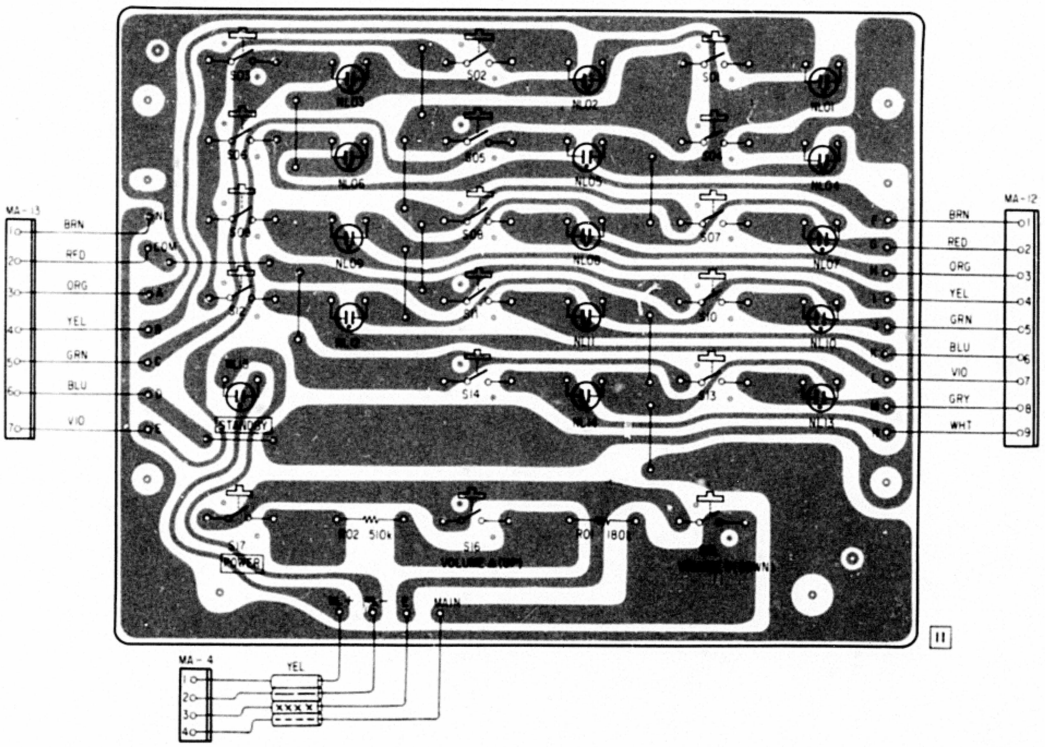


C [R.G.B OUT, VM]



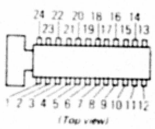
Note: ● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.

– M Board –

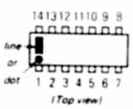


Note: ● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.

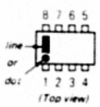
CX760
CX804



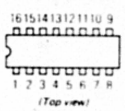
CX761
CX763



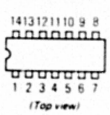
LM358P



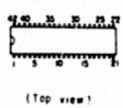
MC14046BCP



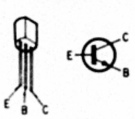
TC4011BP



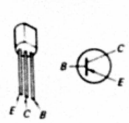
μPD552C015



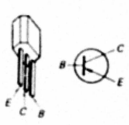
2N3904



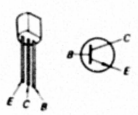
2SA733



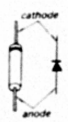
2SA1027R



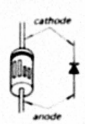
2SC1364
2SC1890A
2SC2230A



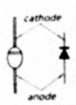
1S1555



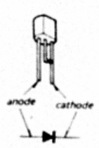
EQB01-12Z
EQA01-25R
EQB01-19Z
EQB01-25
SIB01-04



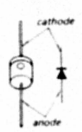
U05E
V09C



μPC574J

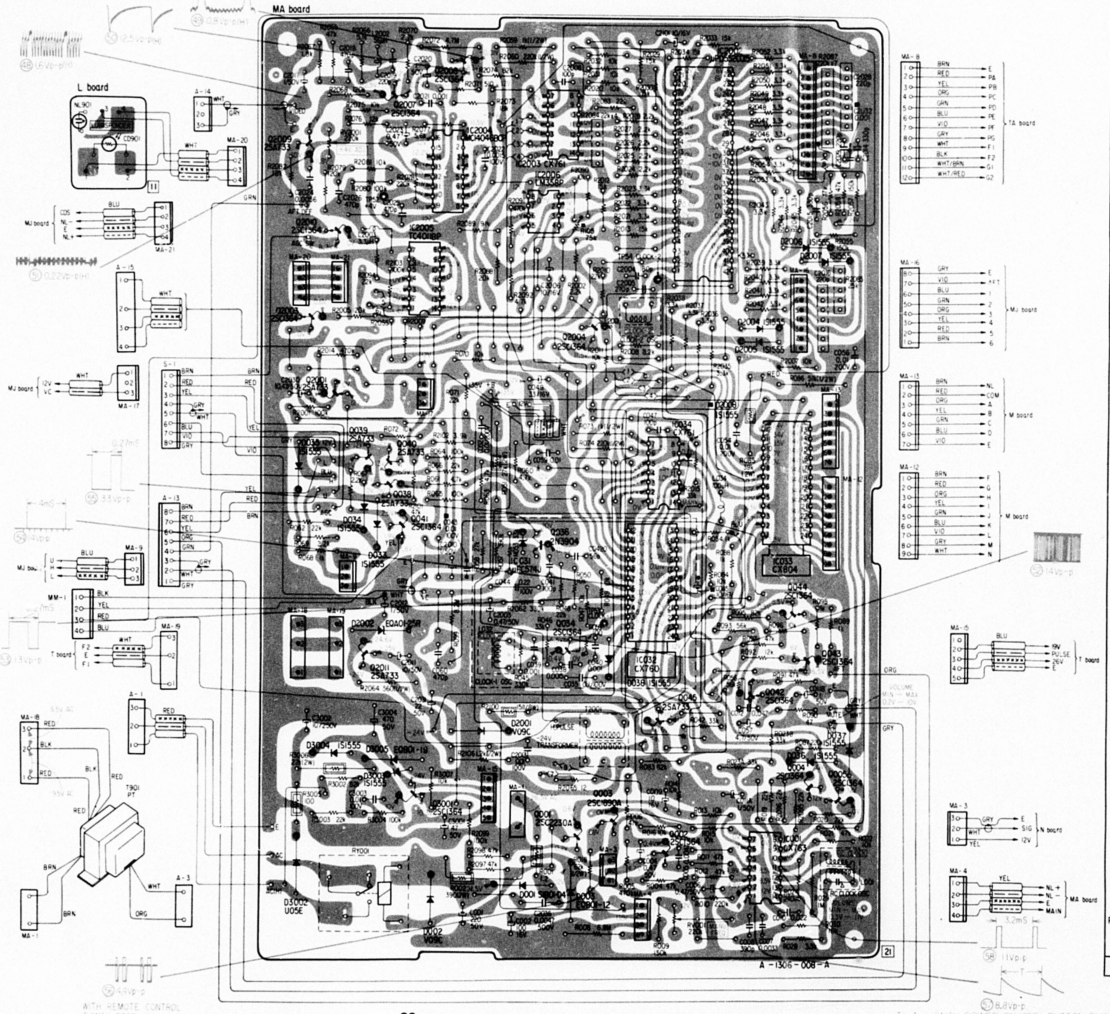


10D6



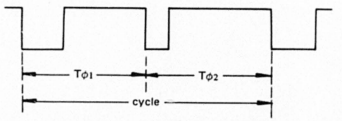
MA
SCC-205B-A
SCC-205C-A
KV-2643R
KV-2644R

– MA and L Boards –



ADJ	Q , IC	D
	2008	
	2007	
	IC2003	
	2009	
RV2001	IC2004	
	IC2002	
	IC2006	
	2010	
		2006
	IC2005	2007
	2003	
	2004	2004
L2001		2005
	2001	
		2008
	039, 040	035
	IC034 , IC033	
	038	
		034
	041	033
	IC031	
	036	
	IC032	
	044	
		2002
	034 043	038
L032	2011	
	042	
	045	
		2001
		037
		3004
		3005 036
	004	3003
	3001,005	
	003	
	001	
	002	
		3002
L001	IC001	001
		003
RV001		002
ADJ	Q , IC	D

1. Remote Control Signal



measured point: pin 4 of IC001 on MA board

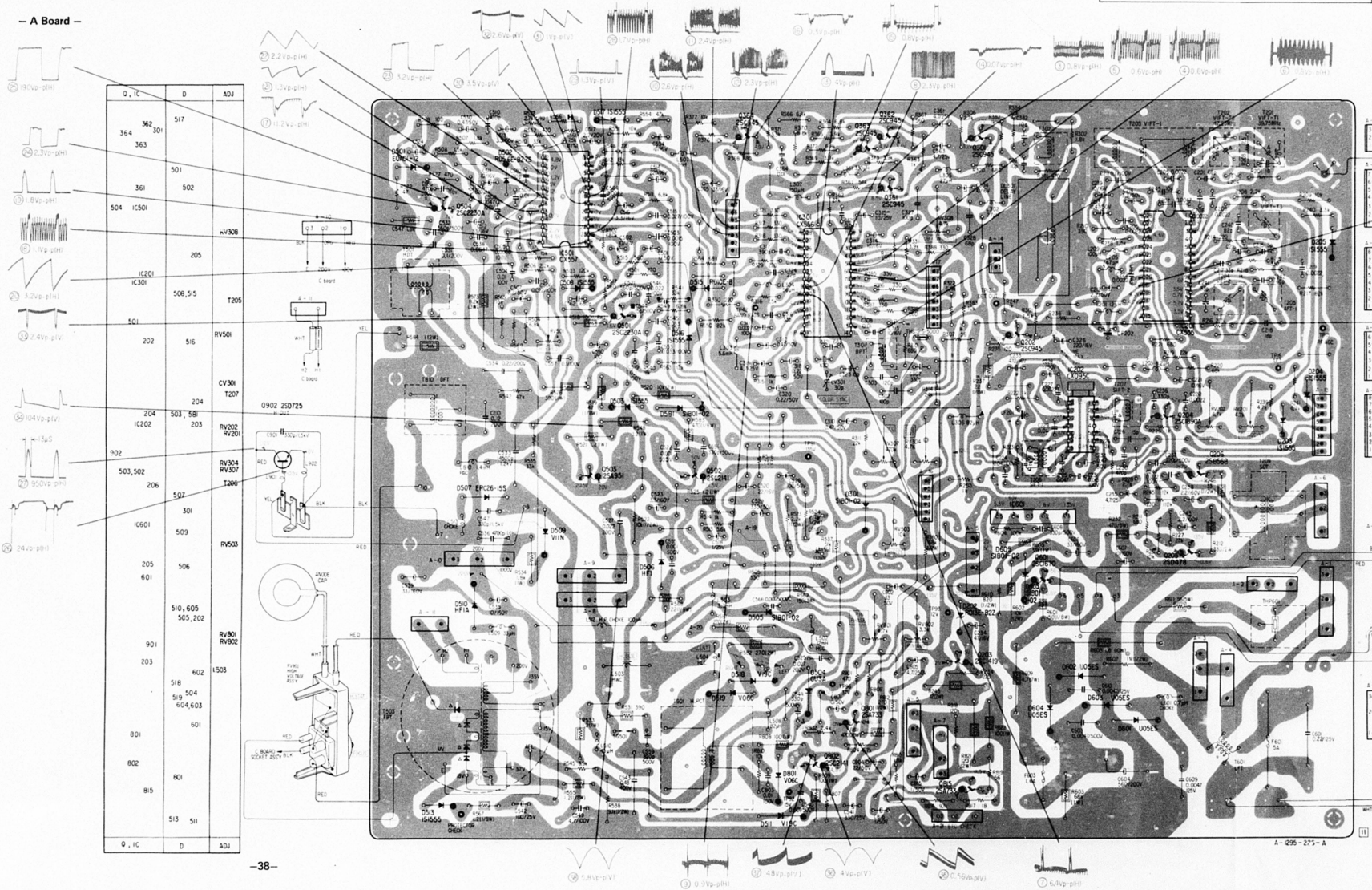
2. Tφ1, Tφ2 and Detecting Times of Each Function

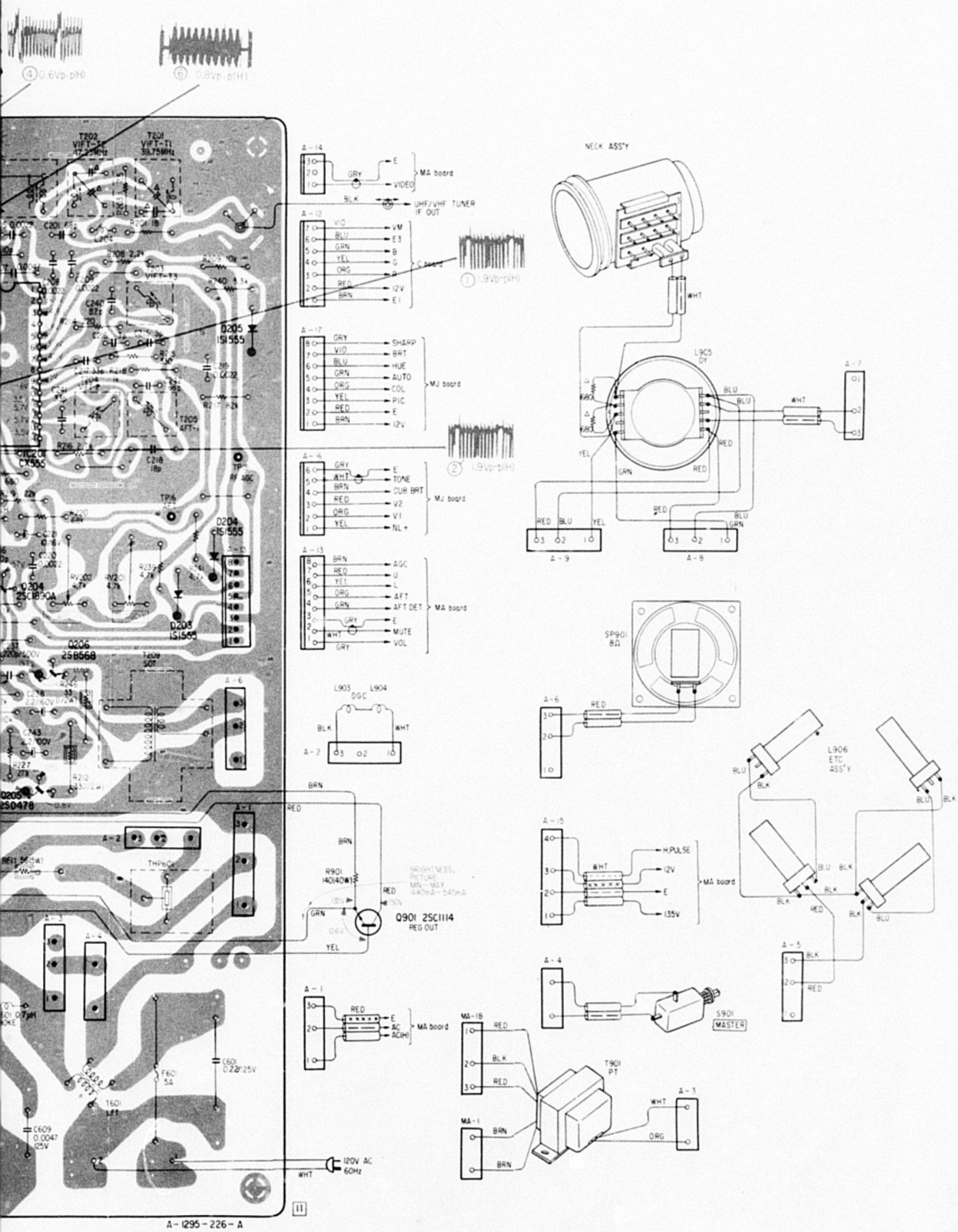
Function	Tφ1 (ms)	Tφ2 (ms)	Delecting Times
VOLUME ▲	4.05 – 7	10.05 – 16	5
VOLUME ▼	2.05 – 4	10.05 – 16	5
POWER ON-OFF	16.05 – 28	10.5 – 16	3
CHANNEL UP	10.05 – 16	10.05 – 16	4
CHANNEL DOWN	7.05 – 10	10.05 – 16	4
CH-2	2.05 – 4	2.05 – 4	8
CH-3	4.05 – 7	2.05 – 4	8
CH-4	7.05 – 10	2.05 – 4	6
CH-5	10.05 – 16	2.05 – 4	5
CH-6	2.05 – 4	4.05 – 7	7
CH-7	4.05 – 7	4.05 – 7	7
CH-8	7.05 – 10	4.05 – 7	5
CH-9	10.05 – 16	4.05 – 7	4
CH-10	2.05 – 4	7.05 – 10	6
CH-11	4.05 – 7	7.05 – 10	5
CH-12	7.05 – 10	7.05 – 10	5
CH-13	10.05 – 16	7.05 – 10	4
CH-☼	16.05 – 28	2.05 – 4	4
CH-☼	16.05 – 28	4.05 – 7	4
MUTE	16.05 – 28	7.05 – 10	4

Note:
- ● —— : parts extracted from the component side.
- ● ●— : parts extracted from the conductor side.
- ● ■ : part mounted on the conductor side.

T=4ms (WITH POWER ON-OFF BUTTON PUSHED)
T=2ms (WITH VOLUME ▲ BUTTON PUSHED)
T=1ms (WITH VOLUME ▼ BUTTON PUSHED)

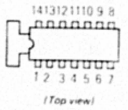
– A Board –


Q, IC
D
ADJ
IC501
IC201
IC301
IC202
IC601
Q902 2SD725
T205
T207
T206
T503
T505
T502
T503
RV501
RV202
RV201
RV304
RV307
RV503
RV801
RV802
L503
D507 ERC26-15S
D509 V1IN
D510 HF1A
D801 V06C
D802 U05ES
D803 U05ES
D804 U05ES
Q901 2SC1114
REG OUT
A-1295-275-A

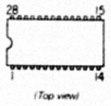

④ 0.6Vp-p(H)
⑥ 0.8Vp-p(H)
T202 VIFT-TC 47.25MHz
T201 VIFT-TI 39.75MHz
A-14
GRY
E
VIDEO
MA board
BLK
UHF/VHF TUNER IF OUT
A-12
VID
BLU
GRN
YEL
ORG
RED
BRN
VM
E3
B
G
R
12V
E1
C board
① 1.9Vp-p(H)
A-17
GRY
VID
BLU
GRN
ORG
YEL
RED
BRN
SHARP
BRT
HUE
AUTO
COL
PIC
E
12V
MJ board
② 1.9Vp-p(H)
A-16
GRY
WHT
BRN
RED
ORG
YEL
E
TONE
DUB BRT
V2
V1
NL+
MJ board
A-13
BRN
RED
YEL
ORG
GRN
GRY
WHT
GRY
AGC
U
L
AFT
AFT DET
E
MUTE
VOL
MA board
D205 1SI555
D204 1SI555
D203 1SI555
Q206 2SB568
Q204 2SC1890A
IC201 CX555
NECK ASS'Y
L905 DY
WHT
BLU
BLU
RED
YEL
GRN
RED
A-7
A-9
A-8
SP901 8Ω
A-6
RED
L903 DGC
L904
BLK
WHT
A-2
L906 ETC ASS'Y
BRN
RED
BRN
R901 (40/40W)
BRIGHTNESS, PICTURE MIN→MAX 0.40mA→5.45mA
GRN
YEL
Q901 2SC1114 REG OUT
A-15
WHT
H.PULSE
12V
E
135V
MA board
A-4
S901 MASTER
A-5
A-1
RED
E
AC
AC(H)
MA board
MA-1B
MA-1
T901 PT
WHT
ORG
BRN
BRN
A-3
F601 5A
T601
C601 0.22/125V
C609 0.0047 125V
120V AC 60Hz
WHT
A-1295-226-A

Note: ● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.

CX095C



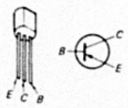
CX555
CX556



CX557

IC601

2SA733



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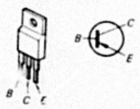
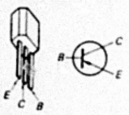


2SA1027R



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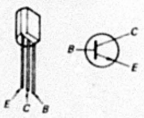
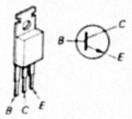
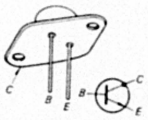


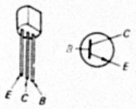
2SC1061
2SC1419
2SD478



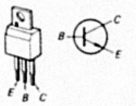
2SC1114
2SD725



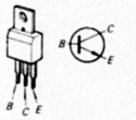
2SC1364
2SC1670
2SC1890A
2SC2230A



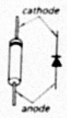
2SC1962



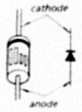
2SC2141



10E2
1S1555
1S2076A
RD5.6E-BZ7S
RD10E-B
RD13E-B2Z

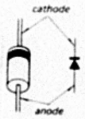


EQA01-12
EQB01-10
EQB01-12Z
SIB01-02

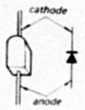


ERC26-15S
GH3F
GU3A
U05ES
V06C
V09C
V11N
V19C

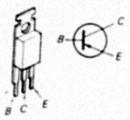
GP08D



HF1
HF1A



2SB568

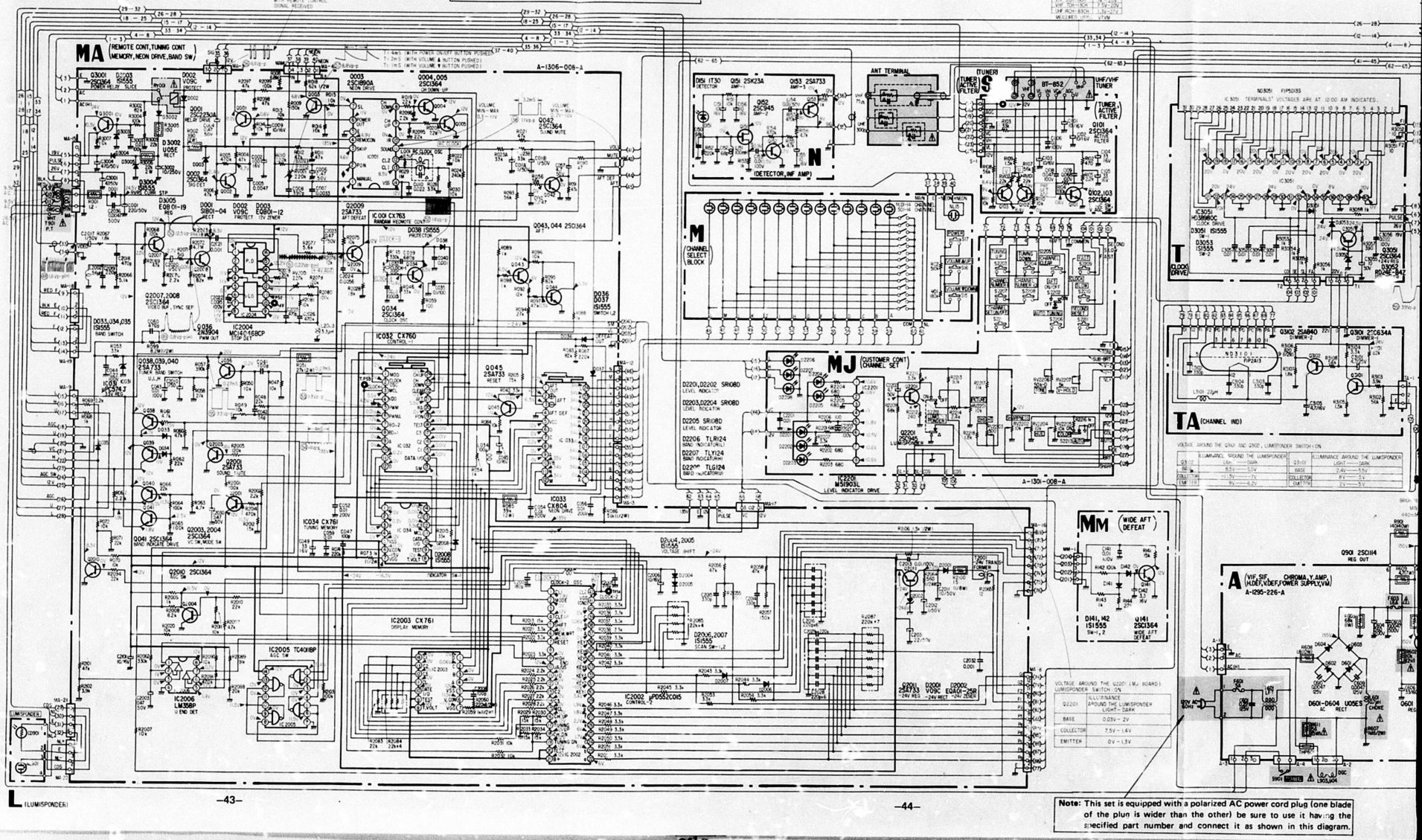


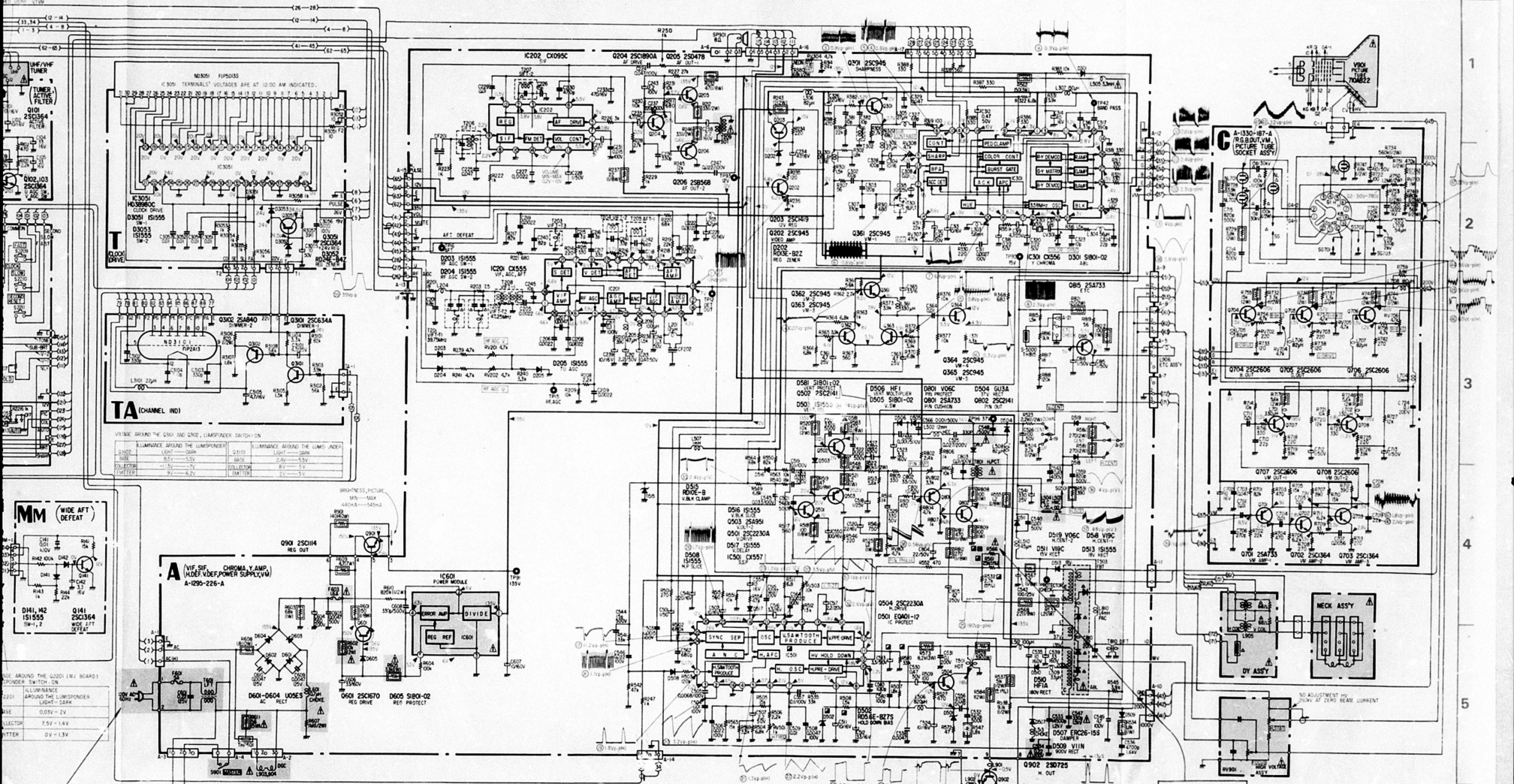
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⋈ in this manual have been carefully factory selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◢ mark the necessary adjustments indicated. If results do not meet the specified valve, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved.
  (Refer to R566 adjustment on page 22.)
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltages on MA board are taken with set selected to channel A and to VHF low band position.
- Do not touch the terminal 1 and 2 of IC001 marked ◆ on MA board with VOM probe, as B+ voltage will not be supplied to the set.

5-4. SCHEMATIC DIAGRAM


MA (REMOTE CONT, TUNING CONT (MEMORY, NEON DRIVE, BAND SW,))
A-1306-008-A
M (CHANNEL SELECT BLOCK)
MJ (CUSTOMER CONT (CHANNEL SET)
A-1301-008-A
MM (WIDE AFT DEFEAT)
T (CLOCK DRIVE)
TA (CHANNEL IND)
S (TUNER ACTIVE FILTER)
N (DETECTOR, INF AMP)
A (VIF, SIF, CHROMA, Y AMP (VDEF, HDEF, POWER SUPPLY, VM))
A-1295-226-A
L (LUMISPONDER)
IC001 CX763 RANDOM REMOTE CONTROL
IC032 CX760 CONTROL
IC033 CX804 NEON DRIVE
IC034 CX761 TUNING MEMORY
IC2003 CX761 DISPLAY MEMORY
IC2004 MC14013BCP STOP SET
IC2005 TC40H8P AGC TM
IC2006 LM358P U END DET
IC2201 HS1903L LEVEL INDICATOR DRIVE
IC2002 μPD552C015 CONTROL-2
ANT TERMINAL
BT-852
UHF/VHF TUNER
Note: This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other) be sure to use it having the specified part number and connect it as shown in this diagram.



Note: This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other) be sure to use it having the specified part number and connect it as shown in this diagram.

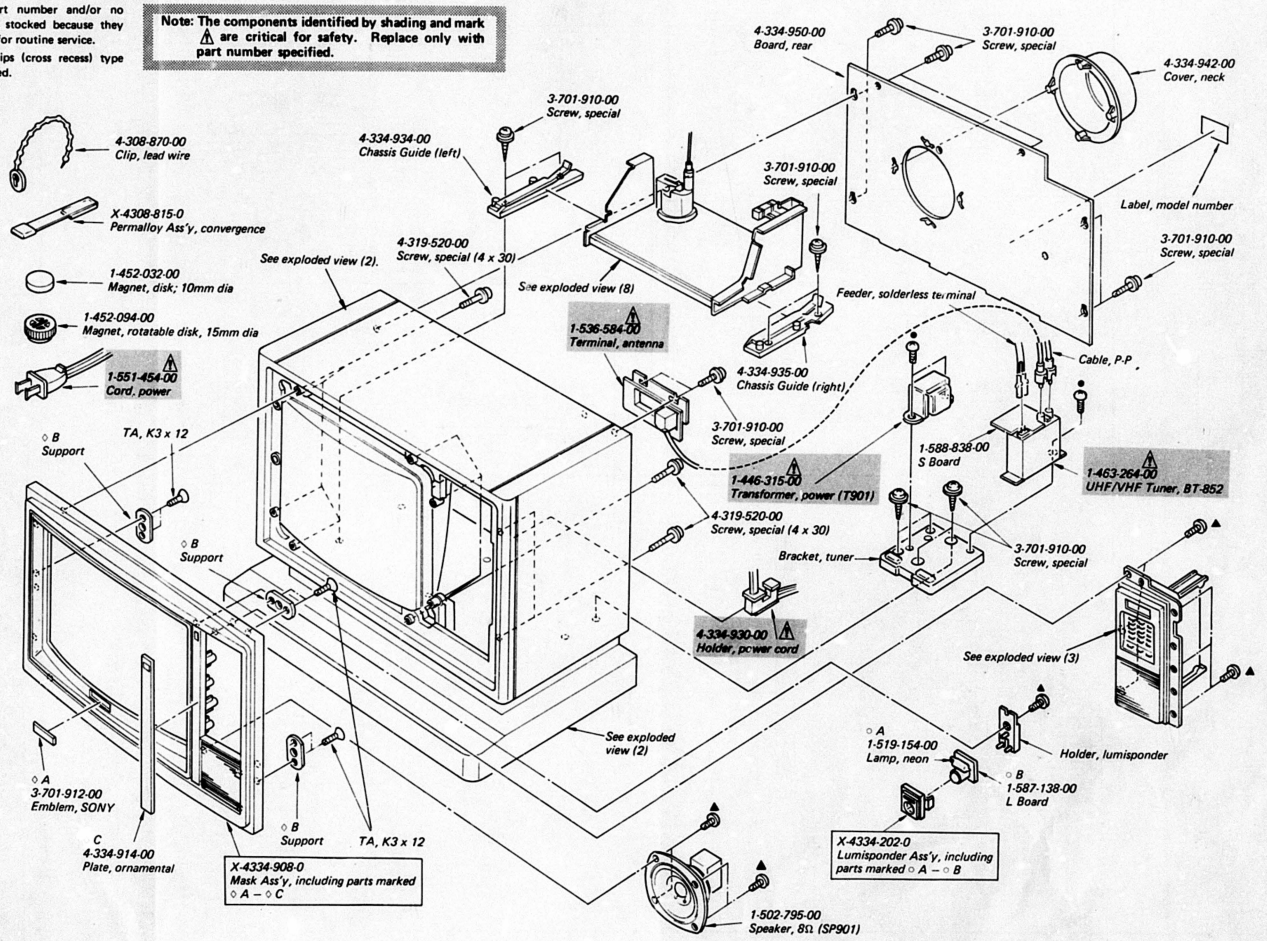
SECTION 6
EXPLODED VIEWS

SCC-205B-A
SCC-205C-A
KV-2643R KV-2643R
KV-2644R KV-2644R
SCC-205B-A
SCC-205C-A

(1) KV-2643R

Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
  ■ : TA, BV3 x 8
  ● : TA, BV3 x 12
  ▲ : TA, BV4 x 12

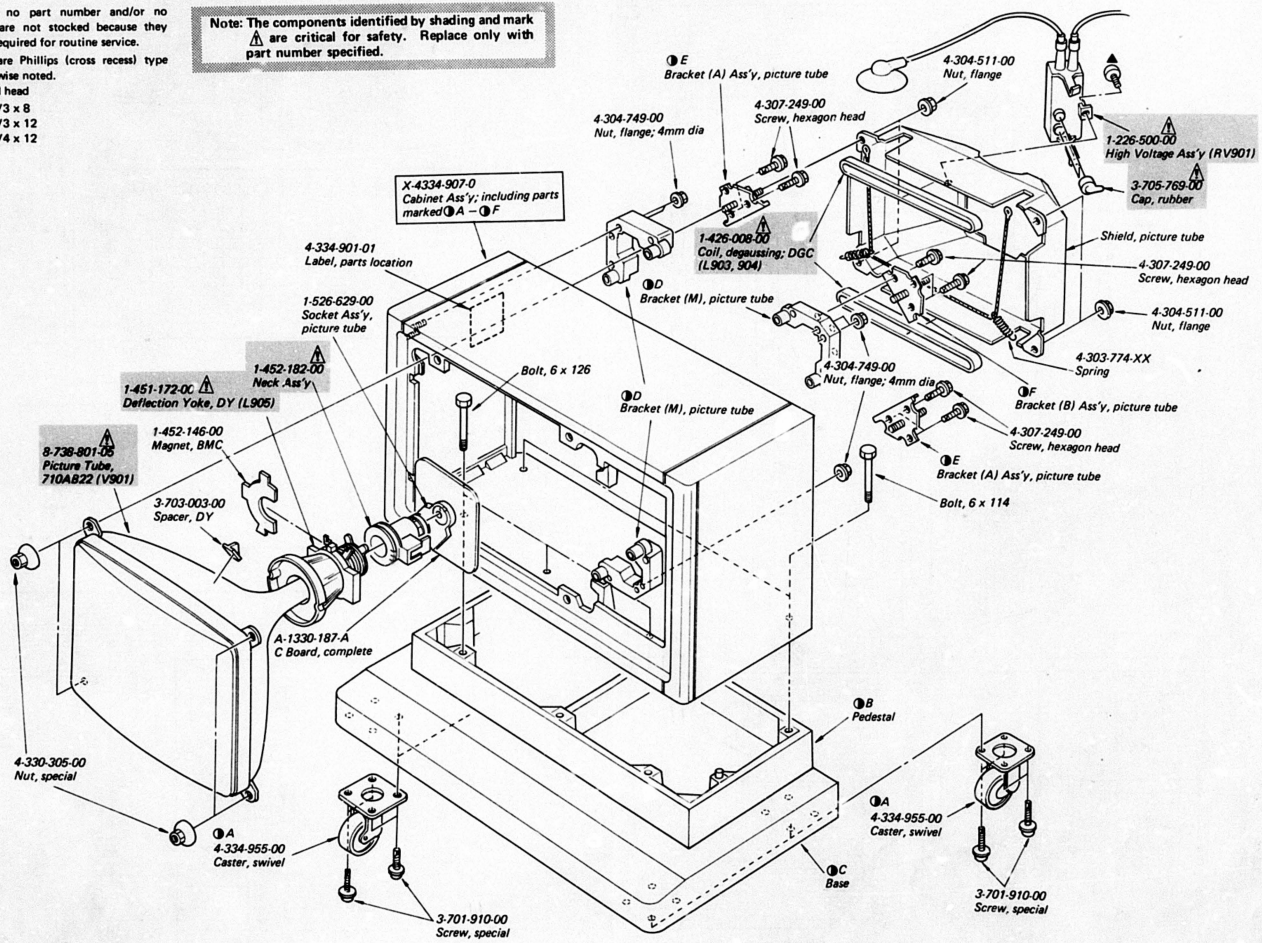
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



(2) KV-2643R

Note: • Items with no part number and/or no description are not stocked because they are seldom required for routine service.
• All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



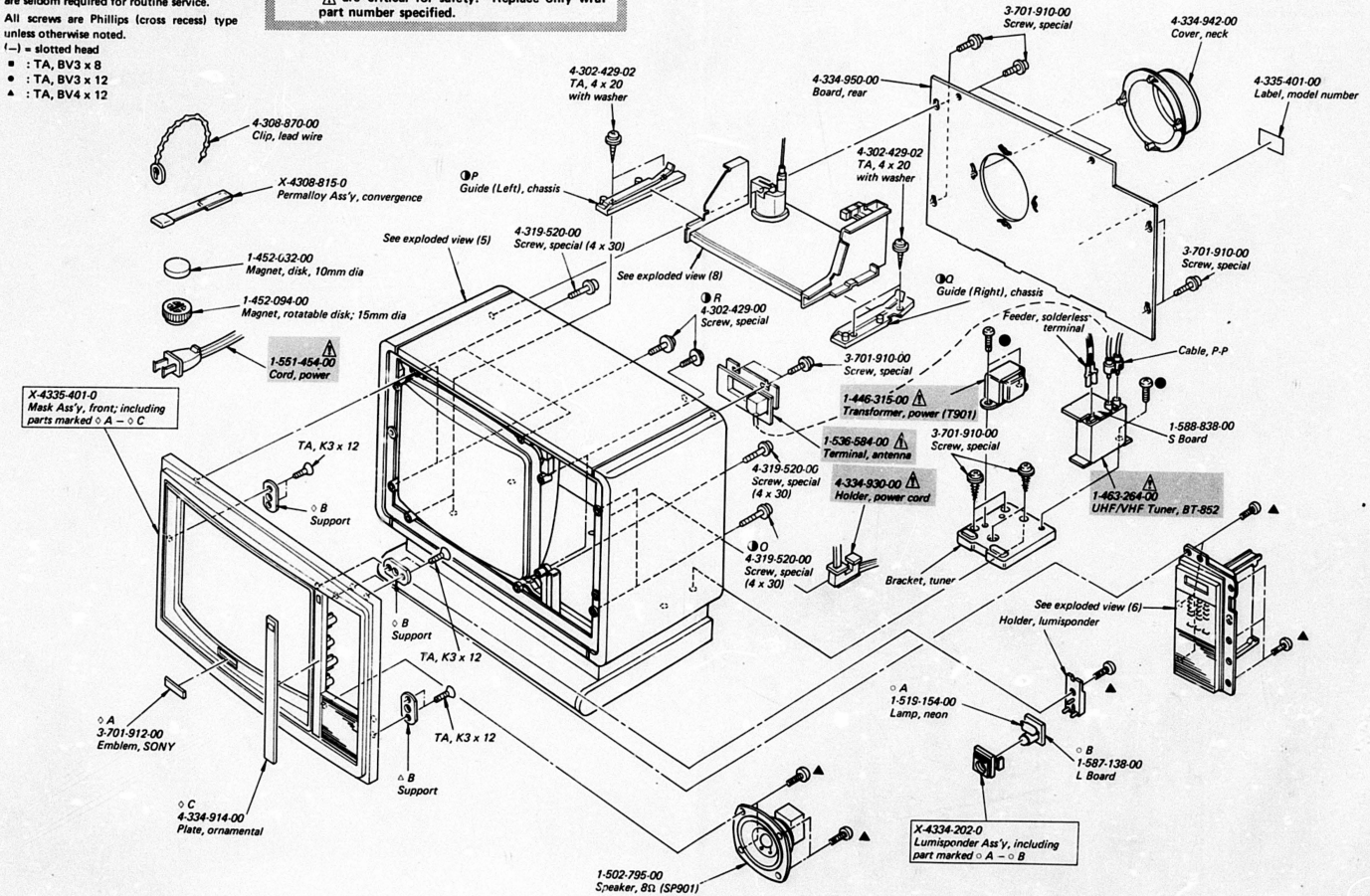
A B C D E F G H

1 2 3 4 5

(3) KV-2644R

Note: • Items with no part number and/or no description are not stocked because they are seldom required for routine service.
• All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

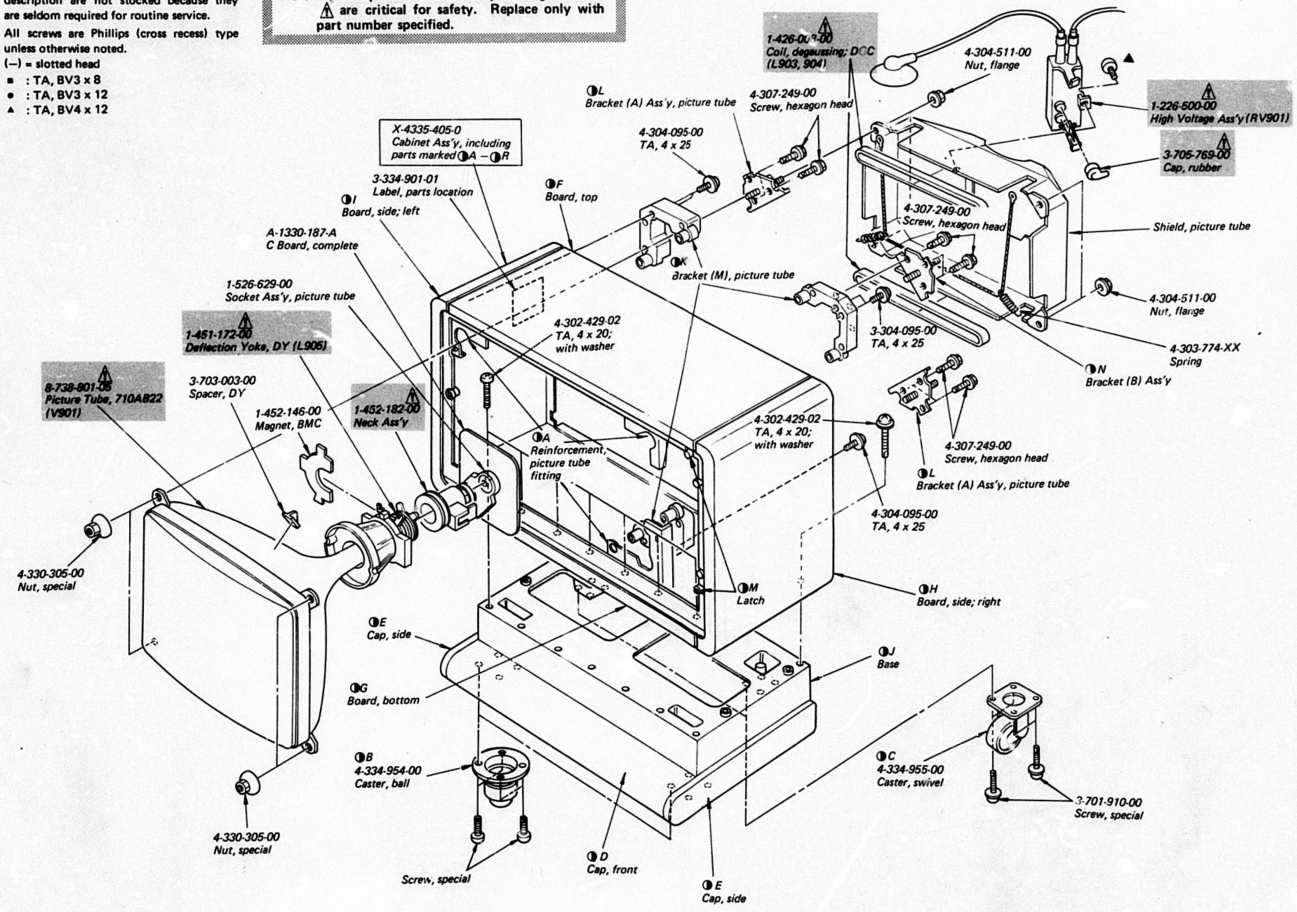
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.


3-701-910-00 Screw, special
4-334-942-00 Cover, neck
4-334-950-00 Board, rear
4-335-401-00 Label, model number
4-302-429-02 TA, 4 x 20 with washer
4-308-870-00 Clip, lead wire
X-4308-815-0 Permalloy Ass'y, convergence
◑P Guide (Left), chassis
4-302-429-02 TA, 4 x 20 with washer
See exploded view (5)
4-319-520-00 Screw, special (4 x 30)
See exploded view (8)
1-452-032-00 Magnet, disk, 10mm dia
1-452-094-00 Magnet, rotatable disk; 15mm dia
◑Q Guide (Right), chassis
3-701-910-00 Screw, special
◑R 4-302-429-00 Screw, special
Feeder, solderless terminal
Cable, P-P
1-551-454-00 ⚠ Cord, power
3-701-910-00 Screw, special
1-446-315-00 ⚠ Transformer, power (T901)
X-4335-401-0 Mask Ass'y, front; including parts marked ◇ A – ◇ C
1-588-838-00 S Board
1-536-584-00 ⚠ Terminal, antenna
3-701-910-00 Screw, special
TA, K3 x 12
4-319-520-00 Screw, special (4 x 30)
4-334-930-00 ⚠ Holder, power cord
1-463-264-00 ⚠ UHF/VHF Tuner, BT-852
◇ B Support
◑O 4-319-520-00 Screw, special (4 x 30)
Bracket, tuner
See exploded view (6)
Holder, lumisponder
◇ B Support
TA, K3 x 12
○ A 1-519-154-00 Lamp, neon
◇ A 3-701-912-00 Emblem, SONY
TA, K3 x 12
○ B 1-587-138-00 L Board
△ B Support
◇ C 4-334-914-00 Plate, ornamental
X-4334-202-0 Lumisponder Ass'y, including part marked ○ A – ○ B
1-502-795-00 Speaker, 8Ω (SP901)

(4) KV-2644R

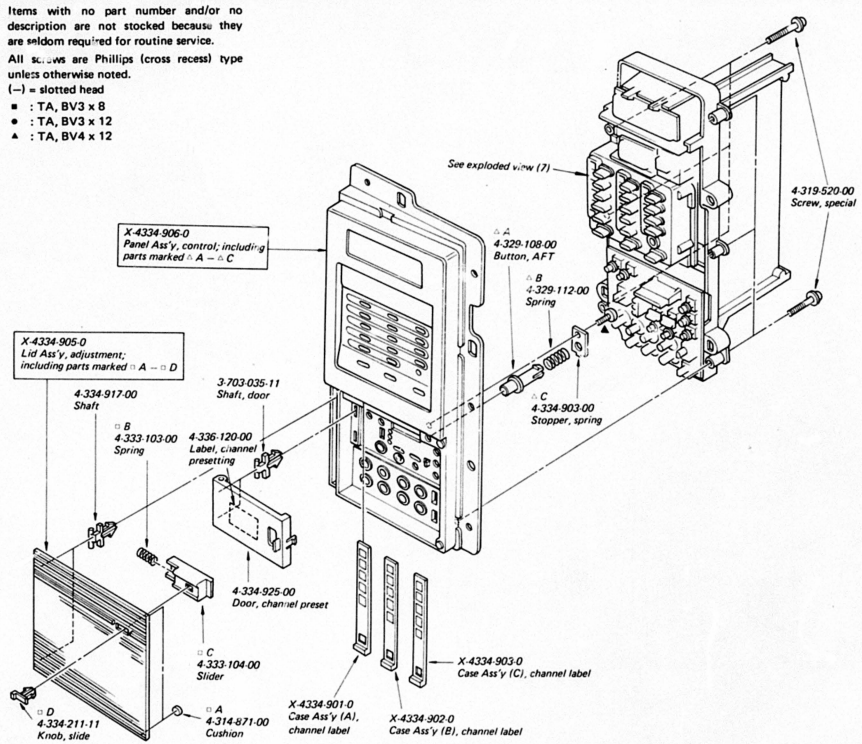
Note: • Items with no part number and/or no description are not stocked because they are seldom required for routine service.
• All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



(5) KV-2643R

Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
  ■ : TA, BV3 x 8
  ● : TA, BV3 x 12
  ▲ : TA, BV4 x 12

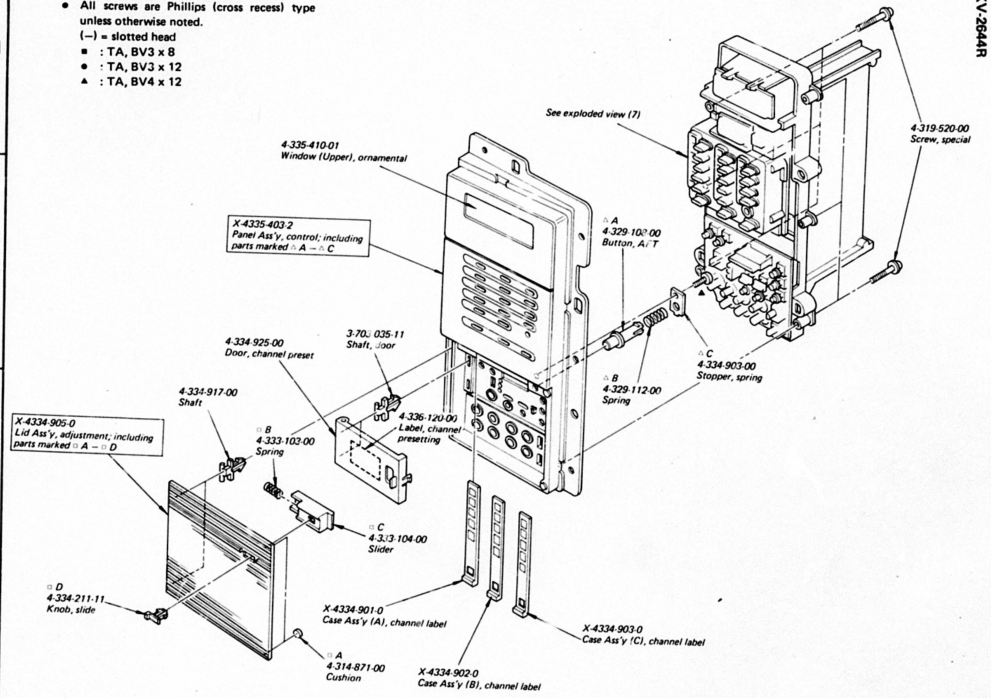


SCC-205B-A
SCC-205C-A

KV-2643R
KV-2644R

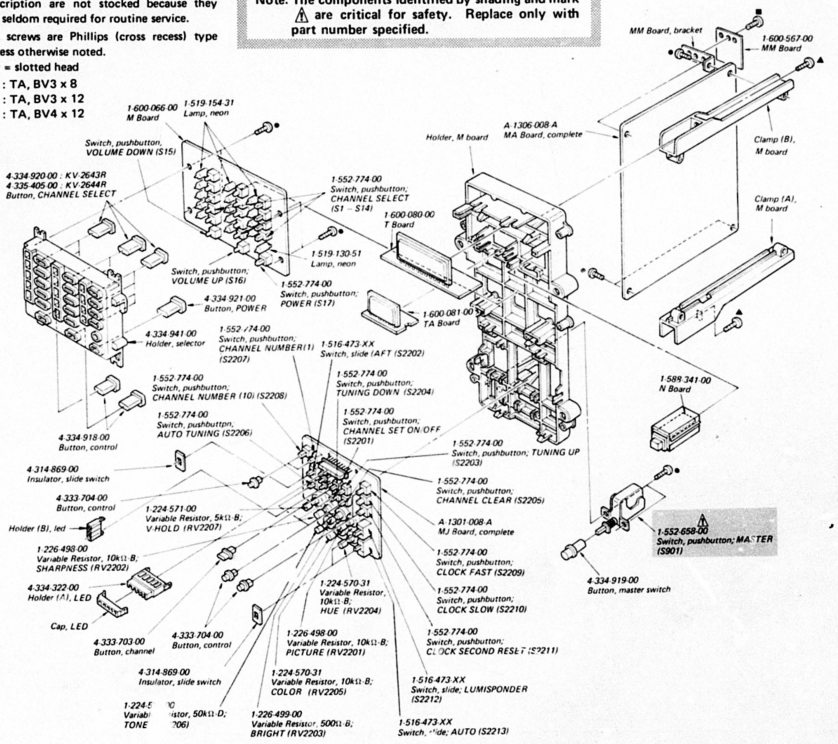
(6) KV-2644R

Note: • Items with no part number and/or no description are not stocked because they are seldom required for routine service.
• All screws are Phillips (cross recess) type unless otherwise noted.
(—) = slotted head
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12



Note: • Items with no part number and/or no description are not stocked because they are seldom required for routine service.
• All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

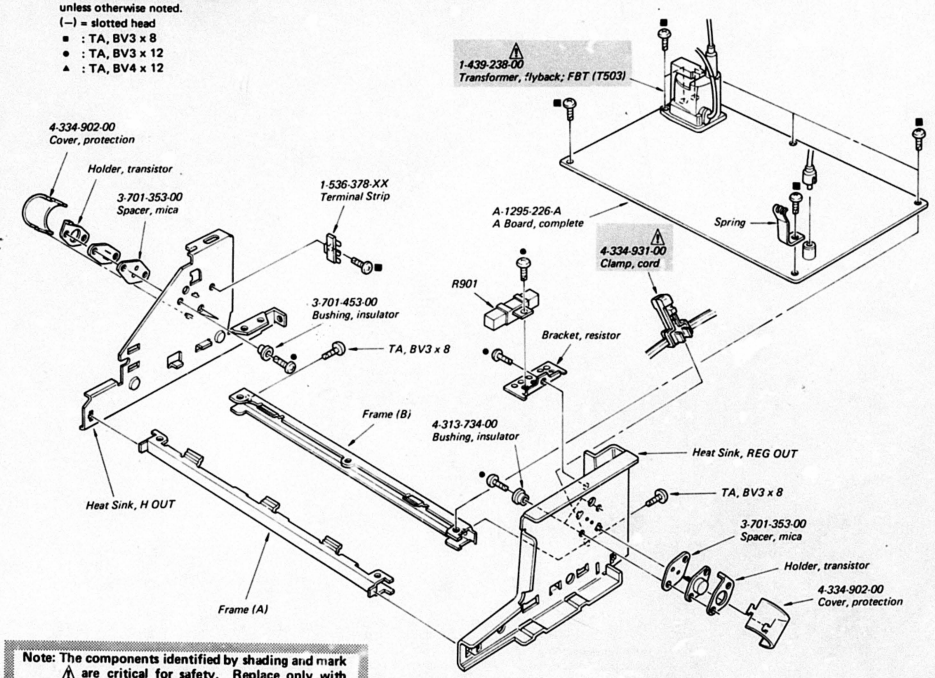

MM Board, bracket
1-600-567-00 MM Board
A-1306-008-A MA Board, complete
Holder, M board
Clamp (B), M board
Clamp (A), M board
1-600-066-00 M Board
1-519-154-31 Lamp, neon
Switch, pushbutton; VOLUME DOWN (S15)
4-334-920-00 : KV-2643R
4-335-405-00 : KV-2644R
Button, CHANNEL SELECT
1-552-774-00 Switch, pushbutton; CHANNEL SELECT (S1 – S14)
1-600-080-00 T Board
1-519-130-51 Lamp, neon
Switch, pushbutton; VOLUME UP (S16)
1-552-774-00 Switch, pushbutton; POWER (S17)
4-334-921-00 Button, POWER
1-600-081-00 TA Board
4-334-941-00 Holder, selector
1-552-774-00 Switch, pushbutton; CHANNEL NUMBER(1) (S2207)
1-516-473-XX Switch, slide (AFT (S2202)
1-552-774-00 Switch, pushbutton; TUNING DOWN (S2204)
1-552-774-00 Switch, pushbutton; CHANNEL NUMBER (10) (S2208)
1-552-774-00 Switch, pushbuttpn, AUTO TUNING (S2206)
1-552-774-00 Switch, pushbutton; CHANNEL SET ON/OFF (S2201)
1-552-774-00 Switch, pushbutton; TUNING UP (S2203)
1-588-341-00 N Board
4-334-918-00 Button, control
4-314-869-00 Insulator, slide switch
1-552-774-00 Switch, pushbutton; CHANNEL CLEAR (S2205)
4-333-704-00 Button, control
1-224-571-00 Variable Resistor, 5kΩ-B; V-HOLD (RV2207)
A-1301-008-A MJ Board, complete
Holder (B), led
1-226-498-00 Variable Resistor, 10kΩ-B; SHARPNESS (RV2202)
1-552-774-00 Switch, pushbutton; CLOCK FAST (S2209)
4-334-322-00 Holder (A), LED
1-224-570-31 Variable Resistor, 10kΩ-B; HUE (RV2204)
1-552-774-00 Switch, pushbutton; CLOCK SLOW (S2210)
Cap, LED
4-333-703-00 Button, channel
4-333-704-00 Button, control
1-226-498-00 Variable Resistor, 10kΩ-B; PICTURE (RV2201)
1-552-774-00 Switch, pushbutton; CLOCK SECOND RESET (S2211)
4-314-869-00 Insulator, slide switch
1-224-570-31 Variable Resistor, 10kΩ-B; COLOR (RV2205)
1-516-473-XX Switch, slide; LUMISPONDER (S2212)
1-224-5[illegible] Variable [illegible]istor, 50kΩ-D; TONE [illegible]706)
1-226-499-00 Variable Resistor, 500Ω-B; BRIGHT (RV2203)
1-516-473-XX Switch, [illegible]ide; AUTO (S2213)
⚠ 1-552-659-00 Switch, pushbutton; MASTER (S901)
4-334-919-00 Button, master switch

SCC-205B-A
SCC-205C-A

KV-2643R
KV-2644R

(8) KV-26-13R/KV-2644R

Note: • Items with no part number and/or no description are not stocked because they are seldom required for routine service.
• All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head
■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SECTION 7
ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	TUNER AND CIRCUIT BOARDS	
	⚠1-463-264-00	VHF/UHF Tuner, BT-852
	1-587-138-00	L Board
	1-588-341-00	N Board
	1-588-838-00	S Board
	1-600-066-00	M Board
	1-600-080-00	T Board
	1-600-081-00	TA Board
	1-600-567-00	MM Board
	A-1295-226-A	A Board, complete
	A-1301-008-A	MJ Board, complete
	A-1306-008-A	MA Board, complete
	A-1330-187-A	C Board, complete
	SEMICONDUCTORS	
	Transistors	
Q001	8-729-213-01	2SC2230A
Q002	8-729-663-47	2SC1364
Q003	8-729-309-06	2SC1890A
Q004, 005	8-729-663-47	2SC1364
Q034	8-729-663-47	2SC1364
Q036	8-729-139-04	2N3904
⇒ Q038–040	8-729-612-77	2SA1027R
Q041–044	8-729-663-47	2SC1364
⇒ Q045	8-729-612-77	2SA1027R
Q101–103	8-729-663-47	2SC1364
Q141	8-729-663-47	2SC1364
⇒ Q151	8-722-384-01	2SK23A-840
⇒ Q152	8-729-663-47	2SC1364
⇒ Q153	8-729-612-77	2SA1027R
⇒ Q202	8-729-663-47	2SC1364
⇒ Q203	8-729-316-12	2SC1061
⇒ Q204	8-729-309-06	2SC1890A
⇒ Q205	8-729-307-82	2SD478-C
⇒ Q206	8-729-326-82	2SB568-C
⇒ Q301	8-729-663-47	2SC1364
⇒ Q361–364	8-729-663-47	2SC1364
Q501	8-729-213-01	2SC2230A
Q502	8-765-500-00	2SC2141
Q503	8-765-510-00	2SA951
Q504	8-729-213-12	2SC2230A-G1

Ref. No.	Part No.	Description
⇒ Q601	8-765-170-01	2SC1962
⇒ Q701	8-729-612-77	2SA1027R
Q702, 703	8-729-663-47	2SC1364
⇒ Q704–708	8-729-322-78	2SC2278
⇒ Q801	8-729-612-77	2SA1027R
Q802	8-765-500-00	2SC2141
⇒ Q815	8-729-612-77	2SA1027R
Q901	8-729-311-42	2SC1114
⇒ Q902	8-729-372-52	2SD725-06
⇒ Q2001	8-729-612-77	2SA1027R
Q2003,2004 Q2007,2008	8-729-663-47	2SC1364
⇒ Q2009	8-729-612-77	2SA1027R
Q2010	8-729-663-47	2SC1364
⇒ Q2011	8-729-612-77	2SA1027R
Q2201	8-729-663-47	2SC1364
Q3001,3051	8-719-663-47	2SC1364
⇒ Q3101	8-729-663-47	2SC1364
⇒ Q3102	8-762-210-00	2SA1835
	ICs	
IC001	8-757-630-00	CX763
IC031	8-759-157-40	μPC574J
IC032	8-757-600-00	CX760
IC033	8-858-040-00	CX804
IC034	8-757-610-00	CX761
IC201	8-759-605-55	CX555
IC202	8-759-600-95	CX095C
IC301	8-759-105-56	CX556
IC501	8-759-105-57	CX557
IC601	⚠1-231-443-00	Power, module
IC2002	8-759-152-15	μPD552C015
IC2003	8-759-610-00	CX761
IC2004	8-759-040-46	MC14046BCP
IC2005	8-759-240-11	TC4011BP
IC2006	8-759-903-58	LM358P
IC2201	8-759-619-03	M51903L
IC3051	8-759-389-81	HD38980C

• ⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	*Part No.*	*Description*
	Diodes	
⇒ D001	8-719-210-06	10D6
D002	8-719-900-93	V09C
D003	8-719-930-12	EQB01-12Z
D033–038	8-719-815-55	1S1555
D141	8-719-815-55	1S1555
D142	8-719-815-55	1S1555
D151	8-713-000-00	1T30
D202	8-719-113-25	RD13E-B2Z
D203–205	8-719-815-55	1S1555
⇒ D301	8-719-200-02	10E2
⇒ D501	8-719-930-12	EQB01-12Z
D502	8-719-156-27	RD5.6E-BZ7S
D503	8-719-815-55	1S1555
⇒ D504	8-719-305-15	GH3F
D505	8-719-901-02	SIB01-02
⇒ D506	8-719-320-11	HF1A
D507	8-719-906-15	ERC26-15S
D508	8-719-815-55	1S1555
D509	8-719-901-19	V11N
D510	8-719-320-11	HF1A
D511	8-719-901-92	V19C
⇒ D513	8-719-923-76	1S2076A
⇒ D515	8-719-931-10	EQB01-10
D516, 517	8-719-815-55	1S1555
D518	8-719-901-92	V19C
⇒ D519	8-719-300-93	V09C
⇒ D581	8-719-908-03	GP08D
D601–604	8-719-913-54	U05ES
⇒ D605	8-719-908-03	GP08D
D801	8-719-900-63	V06C
D2001	8-719-900-93	V09C
D2002	8-719-931-25	EQB01-25
D2004–D2008	8-719-815-55	1S1555
D2201–D2205	8-719-101-00	SR108D-M
D2206	8-719-812-41	TLR124
D2207	8-719-812-42	TLY124
D2208	8-719-812-43	TLG124
D3002	8-719-911-54	U05E
D3003,3004	8-719-815-55	1S1555
⇒ D3005	8-719-930-19	EQB01-19Z
D3051	8-719-815-55	1S1555
D3052	8-719-124-27	RD24E-B4Z
D3053	8-719-815-55	1S1555
	Miscellaneous	
TH815	1-800-627-00	S-5000, Thermister Negative
THP601	1-800-417-12	Thermister Positive
	COILS	
	All coils are microinductors unless otherwise noted.	
L001	1-405-725-00	Coil, RC clock OSC
L032	1-409-193-00	Coil, clock-1 OSC
L034	1-407-169-XX	100μH
L151	1-409-315-00	100mH
L201	1-407-158-XX	12μH
L203	1-407-189-XX	8.2μH
L204	1-425-613-00	Coil
L205	1-407-165-XX	47μH
L209	1-407-169-XX	100μH
L302	1-407-162-XX	27μH
L303	1-408-163-00	5.6mH
L304	1-407-166-XX	56μH
L305	1-407-162-XX	27μH
L306	1-408-226-00	82μH
L307	1-407-171-XX	150μH
L361	1-407-175-XX	330μH
L502	1-459-059-00	12mH, HCC
L503	⚠ 1-459-240-00	HWC, H. SIZE
L504	⚠ 1-459-256-00	HLC
L505	⚠ 1-459-075-00	3.3mH, choke
L506	1-407-716-00	820μH
L507	1-407-195-XX	1mH
L508	1-408-226-00	82μH
L509	1-407-163-XX	33μH
L510	1-459-155-00	45μH
L512	1-407-720-00	100μH H.P.C
L513	1-407-365-00	0.7μH, choke
L601	⚠ 1-407-365-00	0.7μH, choke
L701, 702	1-407-175-XX	330μH
L704	1-407-206-XX	10mH

• ⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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Ref. No.	Part No.	Description
L705–707	1-407-168-XX	82μH
L708	1-407-172-XX	180μH
L709	1-459-257-00	54μH
L810	1-459-123-00	1.4mH, PAC
L901, 902	1-407-365-00	RF choke
L903, 904	⚠1-426-008-00	Degaussing, DGC
L905	⚠1-451-172-00	Deflection Yoke
L906	1-452-183-00	ETC
L2001	1-407-579-00	Coil, clock-2 OSC
L2002	1-407-166-XX	56μH
L2003	1-407-364-00	3.3μH, spook choke
L3101	1-407-161-XX	22μH
DL301	1-415-176-00	Delay Line

TRANSFORMERS AND FILTERS

CF201	1-527-260-00	Ceramic Filter
CF202	1-409-332-00	Ceramic Filter
T201	1-409-319-00	VIFT-T1, 39.75MHz
T202	1-409-318-00	VIFT-T2, 47.25MHz
T203	1-404-181-00	VIFT-T3
T204	1-404-182-00	VIFT-2
T205	1-404-181-00	AFT-1
T206	1-403-367-00	SIFT-1
T207	1-403-871-00	SIFT-2
T208	1-404-179-00	VIFT-1
T209	⚠1-427-462-00	SOT
T301	1-425-995-00	B.P.T
T302	1-409-193-00	3.58MHz Trap
T501	1-437-079-00	HDT
T503	⚠1-439-238-00	Flyback, FBT
T601	⚠1-421-357-00	LFT
T801	⚠1-421-363-00	Horizontal Pincushion, H. PCT
T810	1-407-849-00	DFT
T901	⚠1-446-315-00	Power, PT
T2001	1-425-999-00	Transformer, –24V

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
p : μμF, elect : electrolytic

C001	1-123-361-00	220	50V	elect
C002	1-123-320-00	100	16V	elect
C004	1-123-351-00	0.47	50V	elect
C005	1-101-003-00	0.0047		
C006	1-123-351-00	0.47	50V	elect
C007	1-108-567-00	0.0033	50V	mylar
C008	1-102-822-00	390p		
C009	1-123-316-00	10	16V	elect
C010	1-108-242-00	0.022		mylar
C011A	1-123-352-00	1	50V	elect
C001B	1-123-352-00	1	50V	elect
C012	1-101-006-00	0.047		
C035	1-108-389-00	0.1	100V	mylar
C038	1-130-020-00	0.0015		polyethylene
C039	1-130-016-00	680p		polyethylene
C040	1-130-018-00	0.001		polyethylene
C041	1-102-973-00	100p		
C042	1-101-884-00	56p		
C043	1-108-377-00	0.01	100V	mylar
C044	1-108-393-00	0.22	100V	mylar
C045	1-123-316-00	10	16V	elect
C047	1-102-973-00	100p		
C049	1-123-318-00	33	16V	elect
C052	1-108-421-00	0.01	200V	mylar
C054	1-108-421-00	0.01	200V	mylar
C056	1-108-421-00	0.01	200V	mylar
C057	1-123-355-00	4.7	50V	elect
C059	1-102-129-00	0.01		
C060	1-102-824-00	470p		
C101–103	1-121-651-00	10	16V	elect
C104	1-121-403-00	33	16V	elect
C105	1-123-318-00	33	16V	elect
C106	1-108-389-00	0.1	100V	mylar
C108	1-108-385-00	0.047	100V	mylar
C109	1-108-387-00	0.068	100V	mylar

Ref. No.	*Part No.*	*Description*		
C141	1-108-377-00	0.01	100V	mylar
C142	1-131-368-51	3.3	16V	tantalum
C150	1-102-525-00	68p		
C151	1-121-651-00	10	16V	elect
C152	1-102-525-00	68p		
C153, 154	1-108-377-00	0.01	100V	mylar
C155, 156	1-121-651-00	10	16V	elect
C201	1-101-888-00	68p		
C205, 206	1-102-121-00	0.0022		
C207	1-161-377-00	0.0047		
C208, 209	1-102-121-00	0.0022		
C211	1-108-389-00	0.1	100V	mylar
C212	1-123-353-00	2.2	50V	elect
C213	1-123-351-00	0.47	50V	elect
C214	1-123-354-00	3.3	50V	elect
C215, 216	1-102-503-00	3p		
C217	1-102-963-00	33p		
C218	1-161-282-21	18p		
C219, 220	1-102-121-00	0.0022		
C221	1-123-316-00	10	16V	elect
C222	1-102-121-00	0.0022		
C224	1-108-385-00	0.047	100V	mylar
C225	1-101-006-00	0.047		
C226	1-161-295-21	15p		
C228	1-123-352-00	1	50V	elect
C227	1-102-121-00	0.0022		
C229	1-101-118-00	0.01		
C230	1-102-114-00	470p		
C231	1-108-379-00	0.015	100V	mylar
C232	1-123-351-00	0.47	50V	elect
C233	1-123-323-00	470	16V	elect
C234	1-123-319-00	47	16V	elect
C235	1-123-328-00	4.7	25V	elect
C236	1-102-820-00	330p		
C237	1-102-244-00	220p	500V	
C238	1-123-026-00	2.2	160V	elect
C239	1-123-316-00	10	16V	elect
C240	1-102-496-00	82p		
C241	1-102-518-00	33p		
C242	1-102-494-00	68p		

Ref. No.	*Part No.*	*Description*		
C243	1-123-250-51	2.2	100V	elect
C245	1-161-279-21	10p		
C247	1-108-381-00	0.022	100V	mylar
C302	1-161-271-00	100p		
C303	1-161-272-00	120p		
C304	1-123-316-00	10	16V	elect
C307	1-102-820-00	330p		
C308	1-101-004-00	0.01		
C310	1-123-351-00	0.47	50V	elect
C311	1-108-370-00	0.0027	100V	mylar
C312	1-123-351-00	0.47	50V	elect
C313, 314	1-123-316-00	10	16V	elect
C315	1-123-329-00	10	25V	elect
C316	1-102-963-00	33p		
C317	1-102-822-00	390p		
C318	1-123-447-00	0.22	50V	elect
C319	1-123-328-00	4.7	25V	elect
C320	1-123-447-00	0.22	50V	elect
C321	1-101-888-00	68p		
C323	1-102-947-00	10p		
C324	1-102-959-00	22p		
C326	1-123-321-00	220	16V	elect
C327	1-161-269-21	68p		
C328	1-161-271-00	100p		
C329	1-101-925-00	0.047		
C361, 363	1-121-395-00	4.7	25V	elect
C364	1-101-004-00	0.01		
C365	1-123-318-00	33	16V	elect
C381, 382	1-102-858-61	10p		
C501	1-123-352-00	1	50V	elect
C502	1-123-316-00	10	16V	elect
C503	1-108-367-00	0.0015	100V	mylar
C504	1-108-377-00	0.01	100V	mylar
C505	1-108-375-00	0.068	100V	mylar
C506	1-108-381-00	0.022	100V	mylar
C507	1-123-353-00	2.2	50V	elect
C508	1-108-373-00	0.0047	100V	mylar
C509	1-130-203-00	0.01		polyethylene
C510	1-102-106-00	100p		

REVISED

Ref. No.	Part No.	Description		
C511	1-123-316-00	10	16V	elect
C512	1-123-318-00	33	16V	elect
C513	1-123-354-00	3.3	50V	elect
C514	1-123-321-00	220	16V	elect
C515	1-108-382-00	0.027	100V	mylar
C516	1-131-246-51	3.3	16V	tantalum
C517	1-131-361-21	2.2	20V	tantalum
C518	1-131-236-00	1	20V	tantalum
C519	1-108-389-00	0.1	100V	mylar
C520	1-123-317-00	22	16V	elect
C521	1-102-157-00	560p	500V	
C522	1-101-845-00	0.001	500V	
C523	1-123-268-51	3.3	160V	elect
C524	1-123-316-00	10	16V	elect
C525	1-108-426-00	0.027	200V	mylar
C526	1-123-360-00	100	50V	elect
C527	1-108-425-00	0.022	200V	mylar
C529	1-123-362-00	330	50V	elect
C530	1-123-351-00	0.47	50V	elect
C531	1-108-433-00	0.1	200V	mylar
C532	1-102-157-00	560p	500V	
C533	⚠1-130-240-00	14500p	1.2kV	polyethylene
C534	⚠1-108-437-00	0.22	200V	polyethylene
C535	1-121-999-00	10	160V	elect
C536	1-102-223-00	4700pF	1.6kV	
	1-108-963-00			
C538	1-102-125-00	0.0047		
C539	1-121-757-00	33	160V	elect
C540	1-101-845-00	0.001	500V	
C541	1-121-989-51	330	25V	elect
C542	1-123-333-51	100	25V	elect
C543	1-130-239-11	0.43	400V	polyethylene
C544	1-102-316-00	15p	500V	
C545	1-108-383-00	0.033	100V	mylar
C546	1-108-381-00	0.022	100V	mylar
C547	⚠1-102-327-00	330p	1.5kV	
C548	⚠1-102-030-51	330p	500V	
C549	1-125-195-11	4.7	100V	elect
C550	1-123-320-00	100	16V	elect
C551	1-102-030-00	330p	500V	
C553	1-108-383-00	0.033	100V	mylar

Ref. No.	Part No.	Description		
C554	1-123-316-00	10	16V	elect
C555	1-101-845-00	0.001	500V	
C556	1-102-228-51	470p	500V	
C557	1-108-389-00	0.1	100V	mylar
C559	1-102-212-00	820p	500V	
C562	1-102-116-00	680p		
C564	1-108-369-00	0.0022	100V	mylar
C566	1-101-845-00	0.001	500V	
C582	1-102-106-00	100p		
C601	⚠1-108-745-00	0.22	125V	mylar
C603	1-102-085-00	0.0047	500V	
C604	1-125-186-00	560	200V	elect
C606	1-121-757-00	33	160V	elect
C607	1-121-999-00	10	160V	elect
C608	1-102-030-00	330p	500V	
C609, 610	1-102-189-00	0.0047	125V	
C701	1-101-004-00	0.01		
C702	1-121-651-00	10	16V	elect
C703	1-101-006-00	0.047		
C704, 705	1-101-004-00	0.01		
C706	1-102-980-61	270p		
C707	1-108-573-00	0.0056		mylar
C708	1-101-004-00	0.01		
C709, 710	1-102-959-00	22p		
C711	1-101-004-00	0.01		
C712, 713	1-121-391-00	1	50V	elect
C714, 715	1-102-212-00	820p	500V	
C718	1-123-356-51	10	50V	elect
C719	1-102-155-00	330p	2kV	
C720	1-129-779-51	0.022	1kV	polyethylene
C724	1-108-433-00	0.1	200V	mylar
C801	1-123-356-51	10	50V	elect
C802	1-123-358-51	33	50V	elect
C803	1-108-377-00	0.01	100V	mylar
C804	1-123-357-51	22	50V	elect
C805	1-121-759-51	4.7	250V	elect
C810	1-108-960-00	0.12	200V	polyethylene
C815, 816	1-123-352-00	1	50V	elect
C901	⚠1-102-327-00	330p	1.5kV	

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	*Part No.*	*Description*		
C2003	1-123-351-00	0.47	50V	elect
C2004	1-102-976-61	180p		
C2005	1-102-980-61	270p		
C2006	1-123-316-00	10	16V	elect
C2008	1-102-973-00	100p		
C2010	1-123-352-00	1	50V	elect
C2011	1-123-356-51	10	50V	elect
C2012	1-123-352-00	1	50V	elect
C2013	1-108-377-00	0.01	100V	mylar
C2014,2015	1-102-820-00	330p		
C2016	1-231-425-11	220p x 6		encapsulated
C2017	1-123-352-51	1	50V	elect
C2018	1-102-824-00	470p		
C2019	1-102-978-61	220p		
C2020	1-123-352-00	1	50V	elect
C2021	1-101-455-00	0.001		
C2022	1-108-367-00	0.0015	100V	mylar
C2023	1-123-351-00	0.47	50V	elect
C2024	1-108-573-00	0.0056		mylar
C2025,2026	1-102-824-00	470p		
C2028	1-231-425-11	220p x 6		encapsulated
C2029	1-102-978-61	220p		
C2030	1-123-351-00	0.47	50V	elect
C2031	1-123-357-51	22	50V	elect
C2035	1-123-351-00	0.47	50V	elect
C2036	1-102-085-00	0.0047	500V	
C2101	1-123-316-00	10	16V	elect
C2201	1-102-129-00	0.01		
C2202	1-121-396-00	4.7	50V	elect
C2203	1-108-385-00	0.047	100V	mylar
C3001	1-123-359-51	47	50V	elect
C3002	1-123-254-51	10	250V	elect
C3003	1-108-377-00	0.01	100V	mylar
C3004	1-123-363-51	470	50V	elect
C3051,3052 C3054,3057	1-101-118-00	0.01		
C3055	1-123-356-00	10	50V	elect
C3056	1-108-381-00	0.022	100V	mylar
C3057	1-101-118-00	0.01		
C3101	1-123-328-00	4.7	25V	elect
C3102– C3104	1-102-820-00	330p		
CV301	1-141-212-00	Trimmer, COLOR SYNC		

Ref. No.	*Part No.*	*Description*		

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted.
Refer to the list on the last page for their part numbers.
All variable and adjustable resistors have characteristic curve B, unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ

R001	1-247-997-00	1.2	¼W	carbon (nonflammable)
R002	1-206-654-61	390	2W	metal oxide (nonflammable)
R008	1-202-729-00	6.8M	½W	composition
R018	1-244-916-00	62k	½W	carbon
R029	1-202-645-15	1M	½W	composition
R051	1-206-698-00	27k	2W	metal oxide (nonflammable)
R073	1-244-873-00	1k	½W	carbon
R074	1-244-929-00	220k	½W	composition
R085	1-214-596-61	39k	2W	metal oxide (nonflammable)
R086	1-244-914-00	51k	½W	carbon
R099	1-202-667-15	8.2M	½W	composition
R212	1-244-875-00	33	½W	carbon (nonflammable)
R232	1-211-933-00	47	1/8W	carbon (nonflammable)
R237	1-211-417-00	22	1/8W	carbon (nonflammable)
R243	1-206-465-61	12	2W	metal oxide (nonflammable)
R246	1-244-875-00	33	½W	carbon (nonflammable)
R380	1-244-917-00	68k	½W	carbon
R518	1-247-033-00	100	1/8W	carbon (nonflammable)
R519	1-211-933-00	47	1/8W	carbon (nonflammable)
R520	1-206-688-61	10k	2W	metal oxide (nonflammable)
R521	1-212-361-00	1.2	1W	metal oxide (nonflammable)
R522	1-244-897-00	10k	½W	carbon
R523	1-244-881-00	2.2k	½W	carbon
R524	1-244-883-00	2.7k	½W	carbon
R525	1-212-361-00	1.2	1W	metal oxide (nonflammable)
R528	1-213-138-00	390	1W	metal oxide (nonflammable)
R531	1-211-536-00	390	¼W	carbon (nonflammable)

Ref. No.	Part No.	Description		
R532	1-214-142-00	2.7k	¼W	metal oxide
R533	1-212-361-00	1.2	1W	metal oxide (nonflammable)
R534	1-213-146-00	1.8k	1W	metal oxide (nonflammable)
R537	1-212-695-00	51k	½W	metal oxide (nonflammable)
R538	1-244-896-00	9.1k	½W	carbon
R547	1-247-014-00	1.8k	¼W	carbon (nonflammable)
R548	1-212-361-00	1.2	1W	metal oxide (nonflammable)
R555	1-246-979-00	1.2	1/8W	carbon (nonflammable)
R561	1-214-153-00	7.5k	¼W	metal oxide
R562	1-206-705-00	150	3W	metal oxide (nonflammable)
⋈ R566	⚠ ————		¼W	carbon
R567	1-246-979-00	1.2	1/8W	carbon (nonflammable)
R568	1-211-417-00	22	1/8W	carbon (nonflammable)
R573	1-206-747-61	8.2k	3W	metal oxide (nonflammable)
R581, 582	1-206-650-00	270	2W	metal oxide (nonflammable)
R583	1-246-993-00	470	1/8W	carbon (nonflammable)
R584	1-206-439-61	1	2W	metal oxide (nonflammable)
R601	1-246-991-00	150	1/8W	carbon (nonflammable)
R602	⚠1-206-688-00	10k	2W	metal oxide (nonflammable)
R603	1-214-599-61	68k	1W	metal oxide (nonflammable)
R605	⚠1-213-161-00	33k	1W	metal oxide (nonflammable)
R607	⚠1-202-645-00	1M	½W	composition
R608	1-205-589-00	1.8	10W	cement coated (nonflammable)
R609	1-205-588-00	4.7	7W	cement coated (nonflammable)

Ref. No.	Part No.	Description		
R610	1-212-724-00	820k	½W	metal oxide (nonflammable)
R611	⚠1-205-534-00	56	5W	cement coated (nonflammable)
R717, 724	1-206-682-00	5.6k	2W	metal oxide (nonflammable)
R728, 729	1-206-678-61	3.9k	2W	metal oxide (nonflammable)
R732	1-244-885-00	3.3k	½W	composition
R734	1-244-939-00	560k	½W	composition
R736	1-206-692-00	15k	2W	metal oxide (nonflammable)
R737	1-244-885-00	3.3k	½W	composition
R741	1-206-692-00	15k	2W	metal oxide (nonflammable)
R744	1-244-885-00	3.3k	½W	composition
R747	1-202-617-15	68k	½W	composition
R748	1-202-615-35	56k	½W	composition
R749	1-202-641-15	680k	½W	composition
R750	1-202-719-00	1.2M	½W	composition
R751	1-244-937-00	470k	½W	composition
R752	1-244-929-00	220k	½W	composition
R753	1-244-843-00	56	½W	composition
R755	1-206-692-00	15k	2W	metal oxide (nonflammable)
R808, 809	1-213-131-00	100	1W	metal oxide (nonflammable)
R811	1-246-993-00	470	1/8W	carbon (nonflammable)
R812	1-247-035-00	270	1/8W	carbon (nonflammable)
R821	1-206-642-61	120	2W	metal oxide (nonflammable)
R822	1-213-131-00	100	1W	metal oxide (nonflammable)
R901	1-205-489-00	140	40W	cement coated (nonflammable)
R2059	1-244-873-00	1k	½W	carbon
R2060	1-244-929-00	220k	½W	carbon
R2064	1-244-867-00	560	½W	carbon
R2072	1-202-661-15	4.7M	½W	composition

• The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	*Part No.*	*Description*		
R2084,2085	1-231-426-00	22k x 4		encapsulated
R2087	1-231-427-00	220k x 7		encapsulated
R2100	1-211-413-00	15	1/8W	carbon (nonflammable)
R2106	1-244-875-00	1.2k	½W	carbon
R3005	1-247-005-00	100	¼W	carbon (nonflammable)
R3006	1-206-696-61	22k	2W	metal oxide (nonflammable)
R3106	1-244-871-00	820	½W	carbon
RV001	1-224-551-00	220k, adjustable; MANU FREQ		
RV101	1-224-646-XX	22k, adjustable; PRESET AGC-U		
RV102	1-224-646-XX	22k, adjustable; PRESET AGC-V		
RV201	1-224-644-XX	4.7k, adjustable; RF AGC-V		
RV202	1-224-644-XX	4.7k, adjustable; RF AGC-U		
RV304	1-224-644-XX	4.7k, adjustable; SUB BRT		
RV307	1-224-552-00	470k, adjustable; ACC		
RV308	1-224-644-XX	4.7k, adjustable; SUB CONTRAST		
RV501	1-224-642-XX	1k, adjustable; H. FREQ		
RV503	1-224-645-XX	10k, adjustable; V. SIZE		
RV701	1-226-157-00	1M, adjustable; SCRN		
RV702	1-226-105-00	220, adjustable; B. DRIVE		
RV703	1-226-105-00	220, adjustable; G. DRIVE		
RV704	1-224-644-XX	4.7k, adjustable; B. BKG		
RV705	1-224-644-XX	4.7k, adjustable; G. BKG		
RV706	1-224-644-XX	4.7k, adjustable; R. BKG		
RV801	1-224-644-XX	4.7k, adjustable; PIN PHASE		
⇒ RV802	1-224-644-XX	4.7k, adjustable; PIN AMP		
RV901	**⚠1-226-500-00**	**High Voltage Ass'y**		
RV2001	1-224-551-00	220k, adjustable; +4V ADJ		
RV2201	1-226-498-00	10k, variable; PICTURE		
RV2202	1-226-498-00	10k, variable; SHARPNESS		
RV2203	1-226-499-00	500, variable; BRIGHT		
RV2204	1-224-570-31	10k, variable; HUE		
RV2205	1-224-570-31	10k, variable; COLOR		
RV2206	1-224-555-00	50k, variable; TONE		
RV2207	1-224-571-00	5k, variable; V. HOLD		

Ref. No.	*Part No.*	*Description*
		MISCELLANEOUS
CD901	1-800-354-21	CdS
F601	**⚠1-532-272-XX**	**Fuse, 5A**
F603	**⚠1-532-555-00**	**Fuse, 1.6A**
ND3051	1-519-176-00	F1P5D13S
ND3101	1-519-173-00	F1P2A13
NL1–14	1-519-154-31	Lamp, neon; CHANNEL
NL15	1-519-130-51	Lamp, neon; STANDBY
NL701,702	1-519-013-13	Tube, discharge
NL705	1-519-108-XX	Lamp, neon
NL901	1-519-154-00	Lamp, neon; POWER
RY001	**⚠1-515-320-00**	**Relay**
S1–14	1-552-774-00	Switch, pushbutton; CHANNEL SELECT
S15	1-552-774-00	Switch, pushbutton; VOLUME DOWN
S16	1-552-774-00	Switch, pushbutton; VOLUME UP
S17	1-552-774-00	Switch, pushbutton; POWER
S901	**⚠1-552-658-00**	**Switch, pushbutton; MASTER**
S2201	1-552-774-00	Switch, pushbutton; CHANNEL SET ON/OFF
S2202	1-516-473-XX	Switch, slide; AFT
S2203	1-552-774-00	Switch, pushbutton; TUNING UP
S2204	1-552-774-00	Switch, pushbutton; TUNING DOWN
S2205	1-552-774-00	Switch, pushbutton; CHANNEL CLEAR
S2206	1-552-774-00	Switch, pushbutton; AUTO TUNING
S2207	1-552-774-00	Switch, pushbutton; CHANNEL NUMBER-1
S2208	1-552-774-00	Switch, pushbutton; CHANNEL NUMBER-10
S2209	1-552-774-00	Switch, pushbutton; FAST
S2210	1-552-774-00	Switch, pushbutton; SLOW
S2211	1-552-774-00	Switch, pushbutton; SECOND RESET
S2212	1-516-473-XX	Switch, slide; LUMISPONDER
S2213	1-516-473-XX	Switch, slide; AUTO
SG501	1-519-063-XX	Spark Gap
SG701–703	1-519-063-XX	Spark Gap
SP901	1-502-795-00	Speaker, 8Ω
V901	**⚠8-738-801-05**	**Picture Tube, 710AB22**
X301	1-527-396-00	Crystal

• ⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Part No.	*Description*
1-452-032-00	Magnet, disk; 10mm dia
1-452-094-00	Magnet, rotatable disk; 15mm dia
1-452-146-00	Magnet, BMC
⚠1-452-182-00	Neck Ass'y
1-526-629-00	Socket, picture tube
1-533-146-00	Holder, fuse
1-536-378-XX	Terminal, strip
⚠1-536-584-00	Terminal, antenna
⚠1-551-454-00	Cord, power
1-551-653-00	Feeder with terminal

ACCESSORIES AND PACKING MATERIALS

Part No.	*Description*
X-4334-917-1	Band Ass'y
1-528-068-00	Dry Battery, size "AA"; IEC designation R6
1-561-335-00	Connector, antenna (EAC-31)
3-701-352-00	Bag, polyethylene; instruction manual
3-701-730-00	Bag, polyethylene; IBM card
3-794-233-21	Instruction
4-334-924-01	Label (B), indicator
4-334-993-00	Bag, polyethylene; set protection
4-334-944-00	Sheet, protection
4-334-996-00	Carton (KV-2643R)
4-334-997-00	Tray, bottom
4-334-998-00	Cushion (right, lower) (KV-2643R)
4-334-999-00	Cushion (left, lower) (KV-2643R)
4-335-423-00	Carton (KV-2644R)
4-335-424-00	Cushion (right, lower) (KV2644R)
4-335-425-00	Cushion (left, lower) (KV-2644R)
4-335-426-00	Cushion (right, upper) (KV-2644R)
4-335-427-00	Cushion (left, upper) (KV-2644R)
4-335-429-00	Sheet, protection (KV-2644R)
4-336-101-00	Cushion (right, upper) (KV-2643R)
4-336-102-00	Cushion (left, upper) (KV-2643R)
4-491-213-21	Instruction, important safeguards
4-491-325-21	Card, warranty
4-491-330-01	Schematic Diagram
4-495-798-22	Manual, instruction
7-822-282-01	IBM card (white)
7-822-282-02	IBM card (pink)
7-822-282-03	IBM card (green)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SCC-205B-A
SCC-205C-A

KV-2643R
KV-2644R
RM-503

RM-503

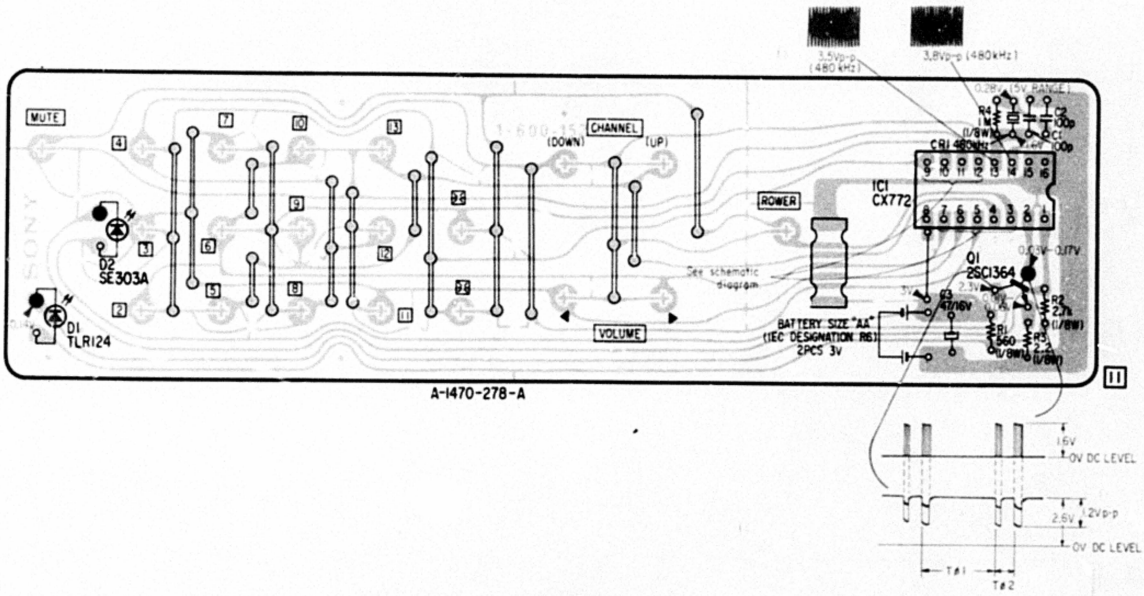
REMOTE COMMANDER

SPECIFICATIONS

Remote Control System:	Infrared control
Power Requirements:	3 V dc Battery size "AA" (IEC designation R6) 2 pcs.
Dimensions:	Approx. 50 (w) x 37 (h) x 204 (d) mm 2 (w) x 1 ½ (h) x 8 (d) inches
Weight:	Approx. 165 g, 6 oz including batteries
Accessories Supplied:	Battery size "AA" (IEC designation R6) Channel number segments

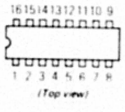
1. MOUNTING DIAGRAM

– Conductor Side –



A-1470-278-A

CX772



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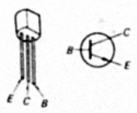
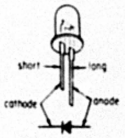


SE303A



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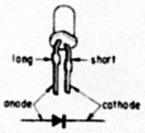
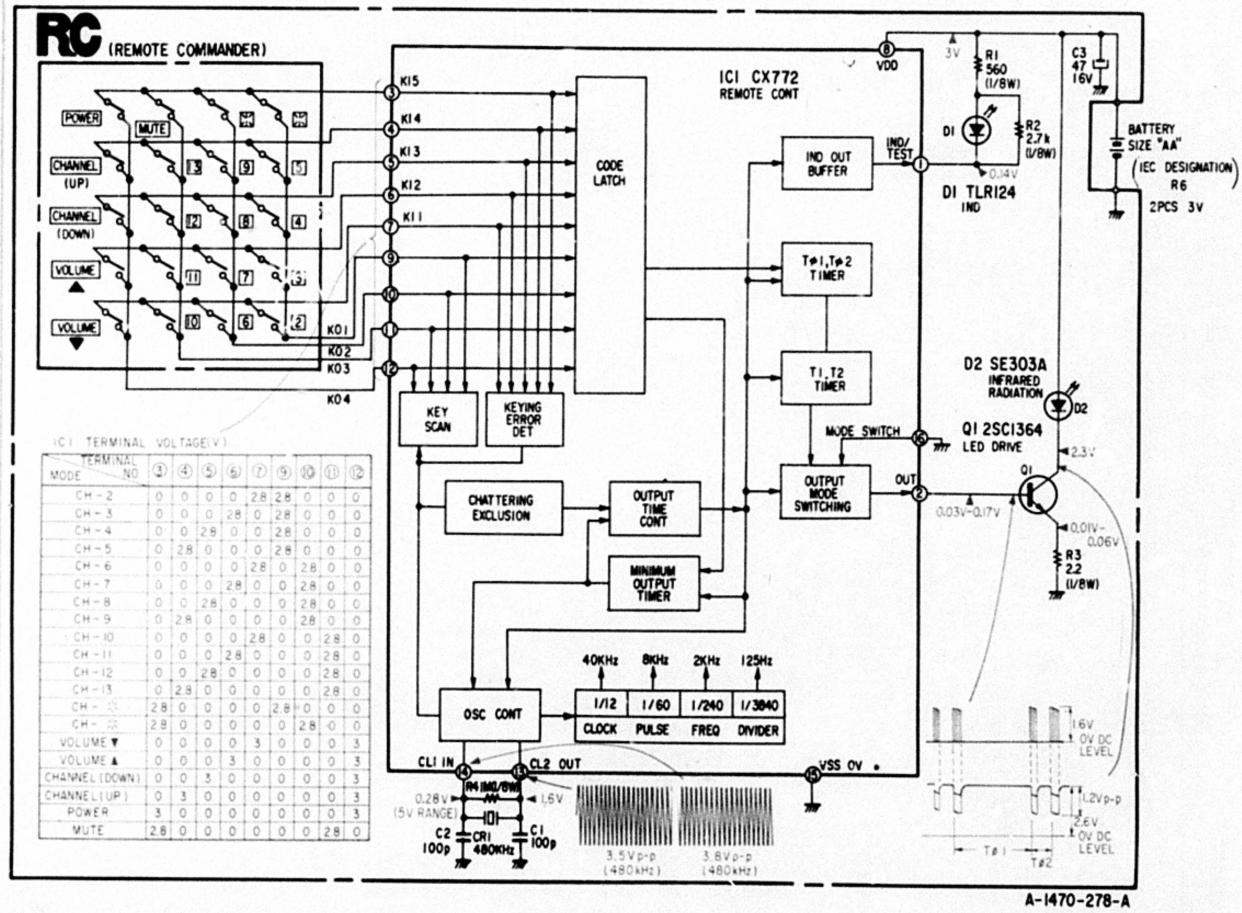


Note:

- ○——: parts extracted from the component side.

2. SCHEMATIC DIAGRAM



(IC1 TERMINAL VOLTAGE(V))

MODE \ TERMINAL NO	③	④	⑤	⑥	⑦	⑨	⑩	⑪	⑫
CH-2	0	0	0	0	2.8	2.8	0	0	0
CH-3	0	0	0	2.8	0	2.8	0	0	0
CH-4	0	0	2.8	0	0	2.8	0	0	0
CH-5	0	2.8	0	0	0	2.8	0	0	0
CH-6	0	0	0	0	2.8	0	2.8	0	0
CH-7	0	0	0	2.8	0	0	2.8	0	0
CH-8	0	0	2.8	0	0	0	2.8	0	0
CH-9	0	2.8	0	0	0	0	2.8	0	0
CH-10	0	0	0	0	2.8	0	0	2.8	0
CH-11	0	0	0	2.8	0	0	0	2.8	0
CH-12	0	0	2.8	0	0	0	0	2.8	0
CH-13	0	2.8	0	0	0	0	0	2.8	0
CH-[illegible]	2.8	0	0	0	0	2.8	0	0	0
CH-[illegible]	2.8	0	0	0	0	0	2.8	0	0
VOLUME ▼	0	0	0	0	3	0	0	0	3
VOLUME ▲	0	0	0	3	0	0	0	0	3
CHANNEL (DOWN)	0	0	3	0	0	0	0	0	3
CHANNEL (UP)	0	3	0	0	0	0	0	0	3
POWER	3	0	0	0	0	0	0	0	3
MUTE	2.8	0	0	0	0	0	0	2.8	0

A-1470-278-A

Note:

- **All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF**
- **All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ**
- **□ : panel designation.**
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.

A | B | C | D

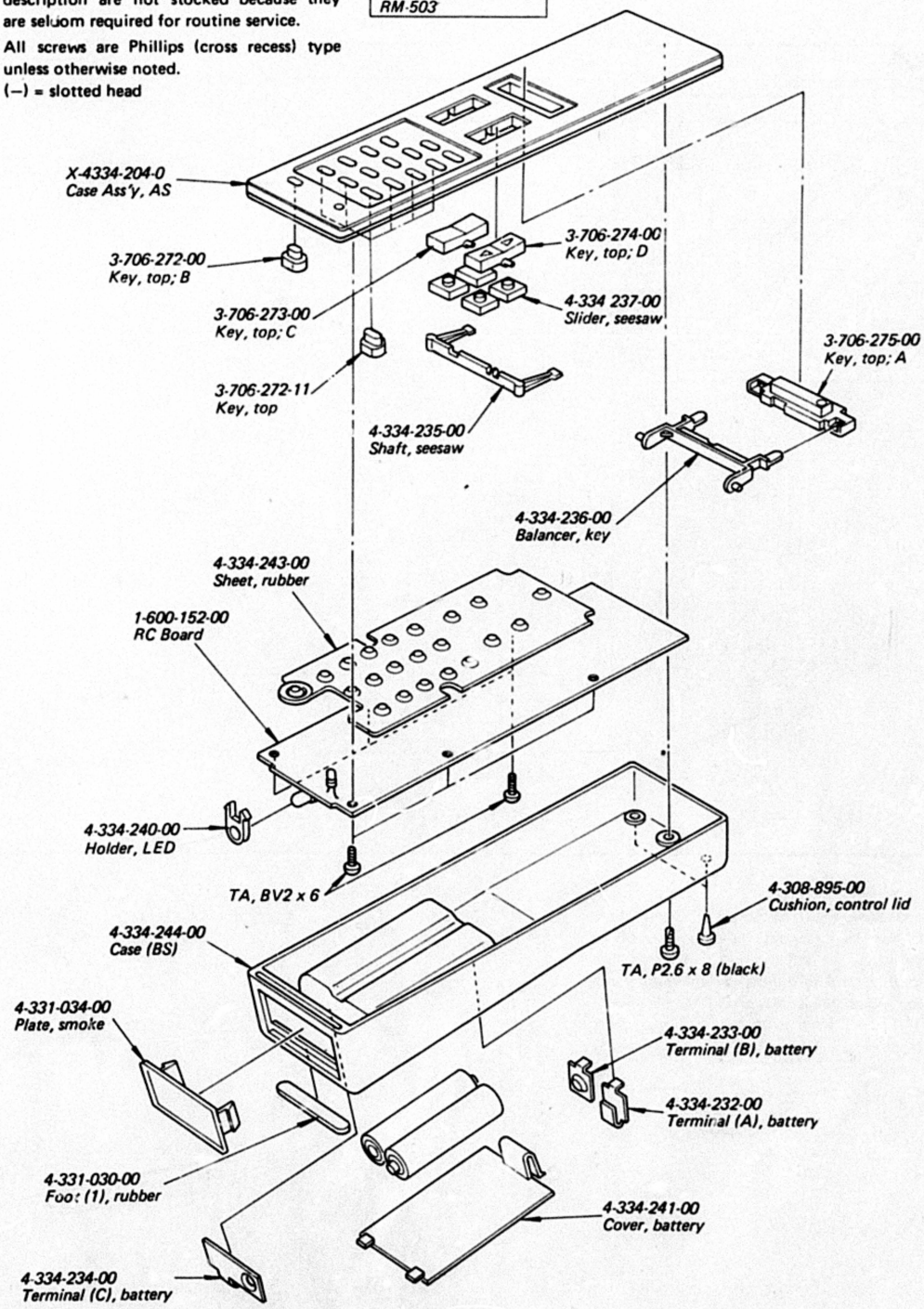
1 2 3 4 5

3. EXPLODED VIEW

Note: • Items with no part number and/or no description are not stocked because they are seldom required for routine service.

• All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head

A-1470-278-A
Commander, complete
RM-503



4. ELECTRICAL PARTS LIST

Ref. No.	*Part No.*	*Description*		
		CIRCUIT BOARD		
	1-600-152-00	RC Board		
		SEMICONDUCTORS		
Q1	8-729-663-47	Transistor, 2SC1364		
IC1	8-759-607-72	IC, CX772		
D1	8-719-812-41	Diode, TLR124		
D2	8-719-103-03	Diode, SE303A		
		CAPACITORS		

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
p : μμF, elect : electrolytic

C1, 2	1-102-973-00	100p	50V	ceramic
C3	1-123-319-00	47	16V	elect
		RESISTORS		

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on the last page for their part numbers. All variable and adjustable resistors have characteristic curve B, unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ

R1	1-246-780-00	560Ω	1/8W	carbon
R2	1-246-788-00	2.7kΩ	1/8W	carbon
R3	1-246-751-00	2.2Ω	1/8W	carbon
R4	1-247-053-00	1MΩ	1/8W	carbon
		MISCELLANEOUS		
C01	1-527-476-00	Radiator, ceramic; 480kHz		

ACCESSORIES AND PACKING MATERIALS

Part No.	*Description*
2-254-109-00	Carton
3-701-628-00	Bag, polyethylene
4-334-238-00	Channel Sheet (A)
4-334-239-00	Channel Sheet (B)
4-495-831-21	Manual, instrcution

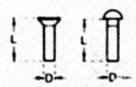
1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:

P 3 x 10
- *L: Length in mm*
- *D: Diameter in mm*
- *Type of head*
- *Indicated slotted-head only.*
- *Unless otherwise indicated, it means cross-recessed head (Phillips type).*



Nut, Washer, Retaining ring:

N 3
- *Diameter of usable screw or shaft*
- *Reference designation*

Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation

9-962-490-01

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79C0450-1
Printed in Japan

SONY TRINITRON R COLOR TV

KV-2643R
KV-2644R

US Model

Chassis No. KV-2643R : SCC-205B-A
KV-2644R : SCC 205C-A

WARNING!!

TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY RATED ISOLATION TRANSFORMER.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

CAUTION

- Avoid rubbing the inked surface.
- Do not allow the paper to contact hot power resistor, soldering irons, etc.

MOUNTING DIAGRAM

Note: ● All mounting diagrams are viewed from conductor side.
● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.
● ■ : part mounted on the conductor side.

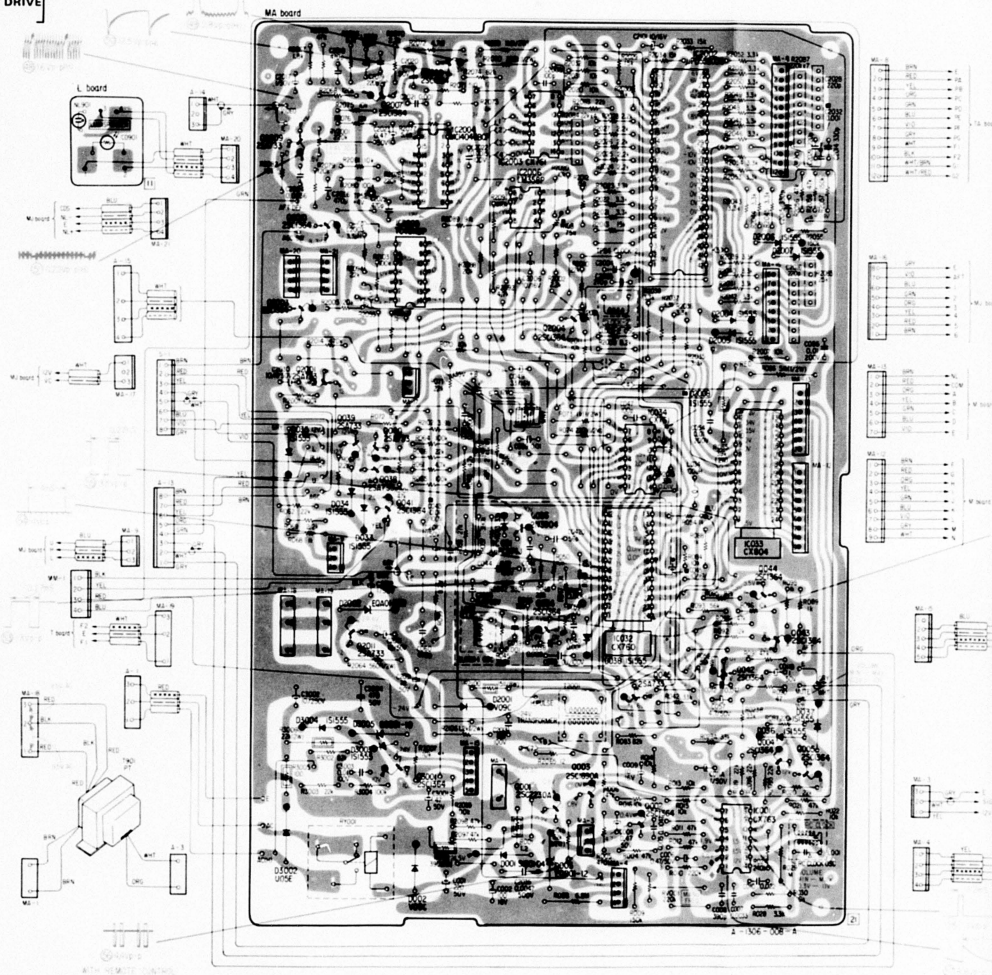
Note:
- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ⚠ : nonflammable resistor.
- ⚠ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⋈ in this manual have been carefully factory selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◢ mark the necessary adjustments indicated. If results do not meet the specified valve, change the component identified by ⋈ and repeat the adjustment until the specified valve is achieved. (Refer to R566 adjustment on page 22.)
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltages on MA board are taken with set selected to channel A and to VHF low band position.
- Do not touch the terminal 1 and 2 of IC001 marked ✦ on MA board with VOM probe, as B+ voltage will not be supplied to the set.

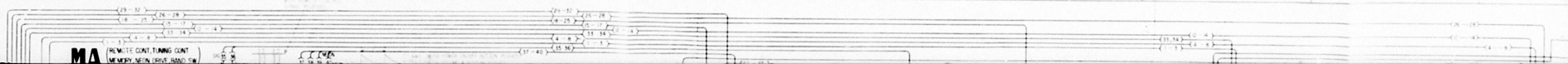
SCHEMATIC DIAGRAM

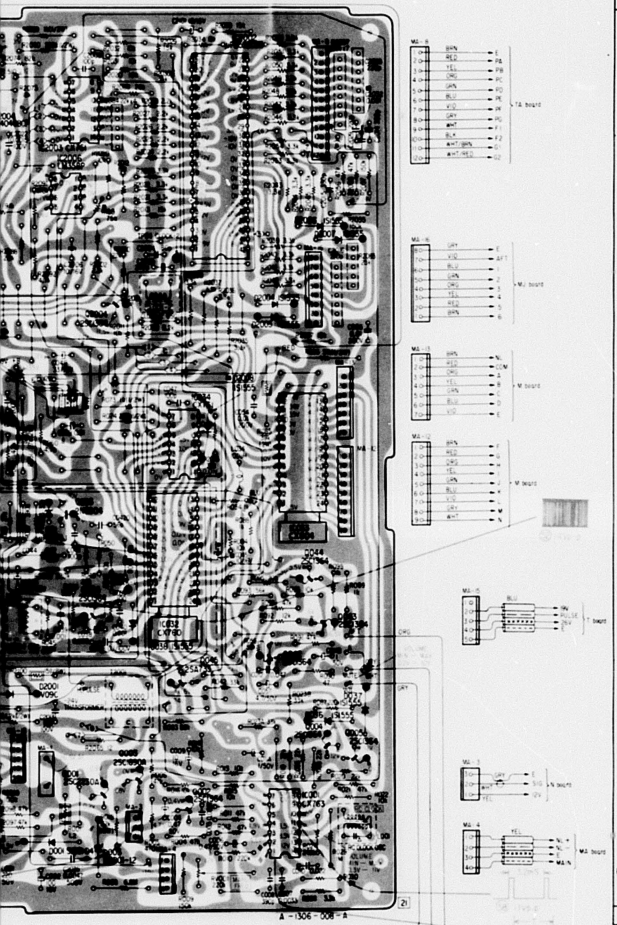
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

MA [REMOTE CONTROL, TUNING CONTROL, MEMORY, NEON DRIVE BAND SWITCH

L [LUMISPONDER]





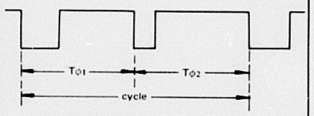


A-1306-008-A

ADJ	Q, IC	D
	2008	
	2007	
	IC2003	
	2009	
RV2001	IC2004	
	IC2002	
	IC2006	
	2010	
		2006
		2007
	IC2005	
	2003	
	2004	2004
		2005
L2001		
	2001	
		2008
	039, 040	035
	IC034, IC033	
	038	
		034
	041	033
	IC031	
	036	
	IC032	
	044	
		2002
	034	038
L032	2011	
	042	
	045	
		2001
		037
		3004
		3005 036
	004	3003
	3001, 005	
	003	
	001	
	002	
L001	IC001	3002
		001
		003
RV001		002

ADJ | Q, IC | D

1. Remote Control Signal

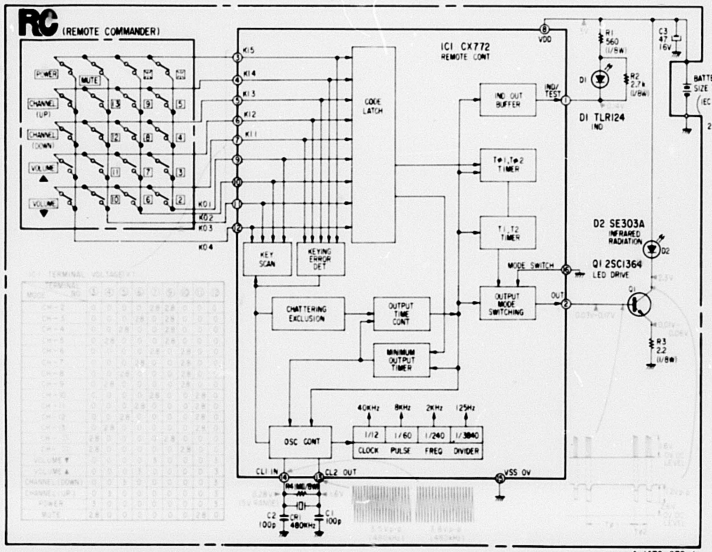


measured point: pin 4 of IC001 on MA board

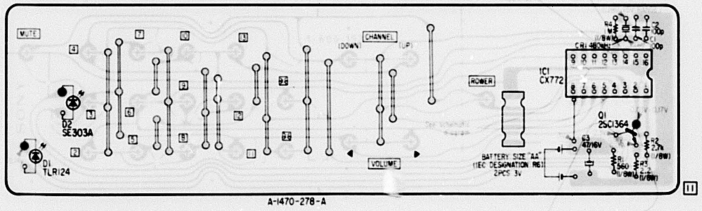
2. Tφ1, Tφ2 and Detecting Times of Each Function

Function	Tφ1 (ms)	Tφ2 (ms)	Delecting Times
VOLUME ▲	4.05 – 7	10.05 – 16	5
VOLUME ▼	2.05 – 4	10.05 – 16	5
POWER ON-OFF	16.05 – 28	10.5 – 16	3
CHANNEL UP	10.05 – 16	10.05 – 16	4
CHANNEL DOWN	7.05 – 10	10.05 – 16	4
CH-2	2.05 – 4	2.05 – 4	8
CH-3	4.05 – 7	2.05 – 4	8
CH-4	7.05 – 10	2.05 – 4	6
CH-5	10.05 – 16	2.05 – 4	5
CH-6	2.05 – 4	4.05 – 7	7
CH-7	4.05 – 7	4.05 – 7	7
CH-8	7.05 – 10	4.05 – 7	5
CH-9	10.05 – 16	4.05 – 7	4
CH-10	2.05 – 4	7.05 – 10	6
CH-11	4.05 – 7	7.05 – 10	5
CH-12	7.05 – 10	7.05 – 10	5
CH-13	10.05 – 16	7.05 – 10	4
CH-※	16.05 – 28	2.05 – 4	4
CH-※	16.05 – 28	4.05 – 7	4
MUTE	16.05 – 28	7.05 – 10	4

REMOTE COMMANDER RM-503

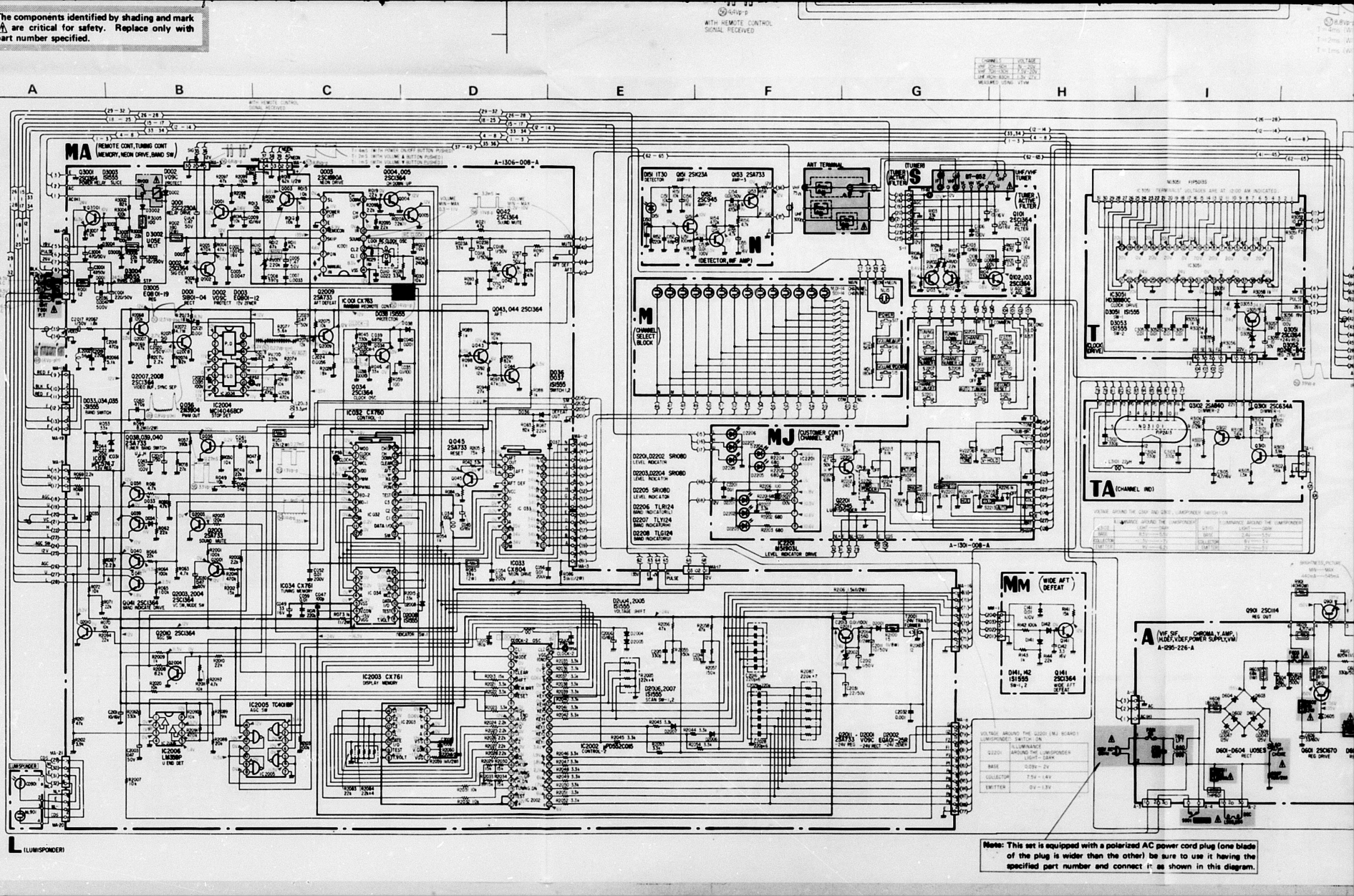


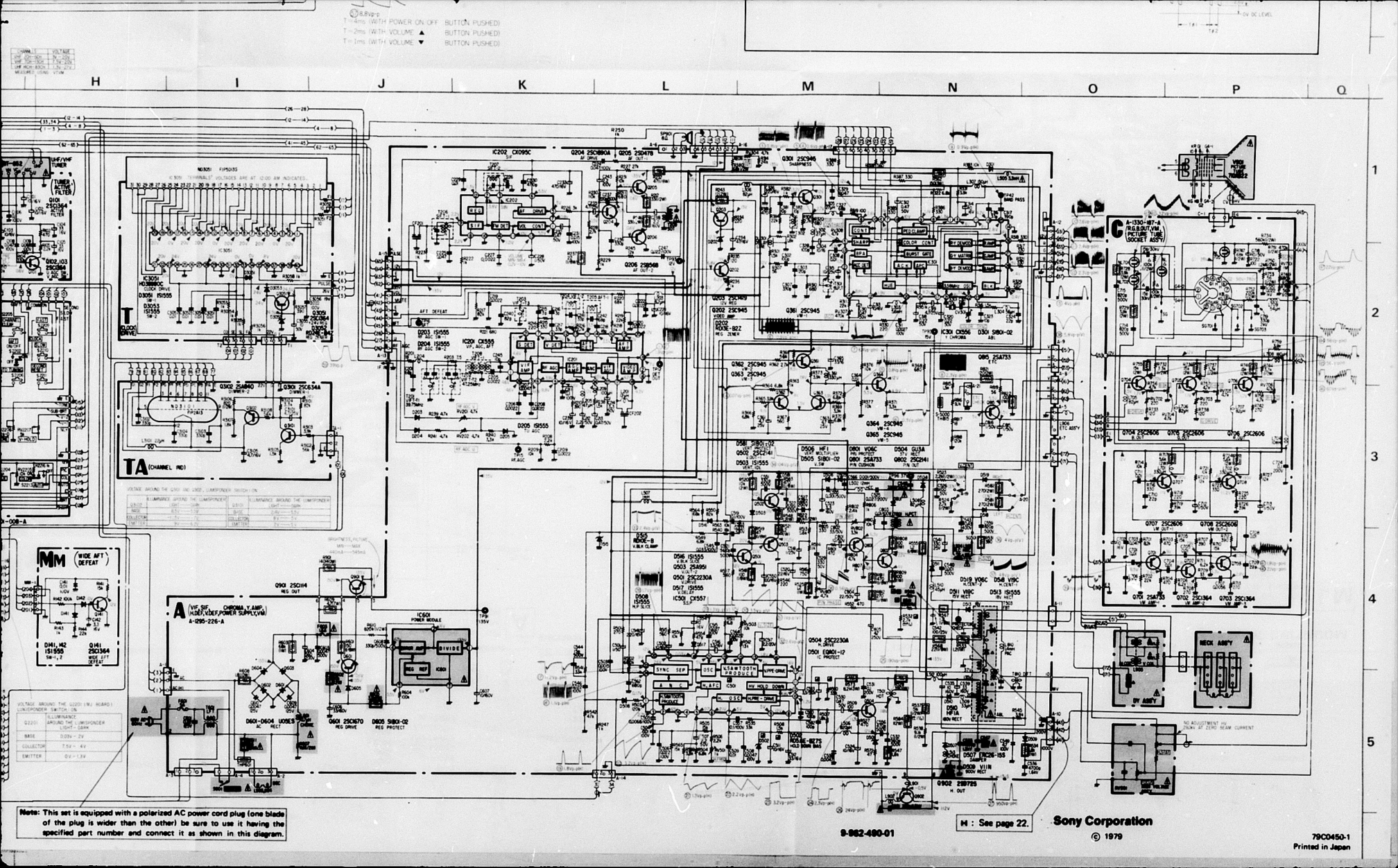
A-1470-278-A



A-1470-278-A

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

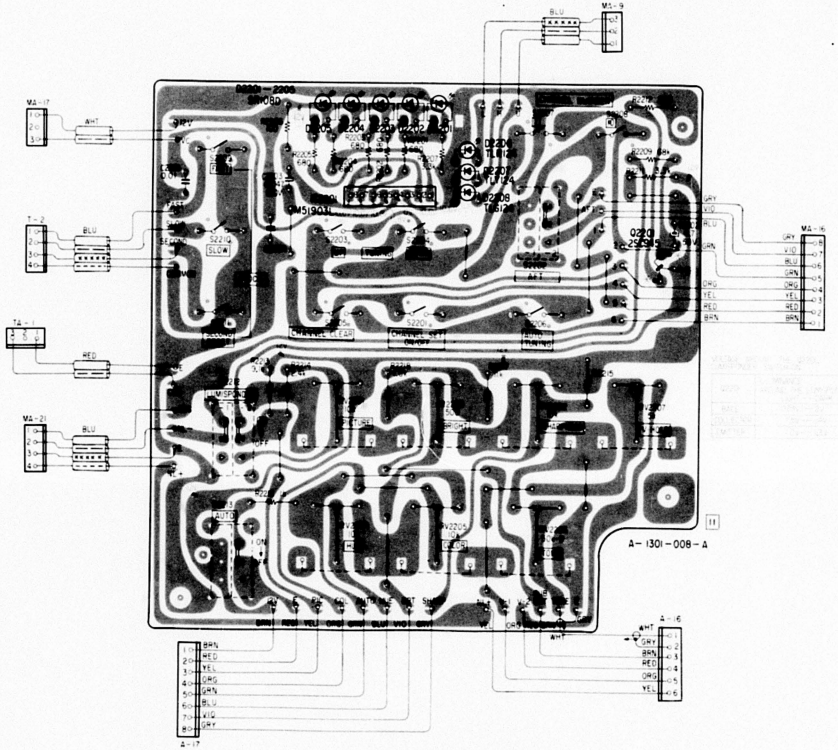



H
I
J
K
L
M
N
O
P
Q
1
2
3
4
5
T
TA (CHANNEL IND)
A (VIF, SIF, CHROMA, Y, AMP, H.DEF, V.DEF, POWER SUPPLY, VM)
A-1295-226-A
C
A-1330-187-A
M (WIDE AFT DEFEAT)
IC202 CX095C
IC201 CX555
IC301 CX556
IC501 CX557
IC501 POWER MODULE
Q204 2SC1890A
Q205 2SD478
Q206 2SB568
Q301 2SC945
Q302 2SA840
Q303 2SC634A
Q501 2SC2230A
Q502 2SC2141
Q504 2SC2230A
Q601 2SC1670
Q902 2SB725
D205 IS555
D501 EQ01-12
D505 SI80I-02
D506 HF1
D507 ERC06-10S
D508 RD18E-B27S
D509 VM1A
D510 V09C
D511 V09C
D512 V09C
D513 IS555
D514 V09C
D601-D604 U05ES
D605 SI80I-02
D701 2SA733
D702 2SC1364
D703 2SC1364
D704 2SC2606
D705 2SC2606
D706 2SC2606
D707 2SC2606
D708 2SC2606
D901 2SC1114
D902 2SB725
D903 V11R
D904 V11R
D905 V11R
D906 V11R
D907 V11R
D908 V11R
D909 V11R
D910 V11R
D911 V11R
D912 V11R
D913 V11R
D914 V11R
D915 V11R
D916 V11R
D917 V11R
D918 V11R
D919 V11R
D920 V11R
D921 V11R
D922 V11R

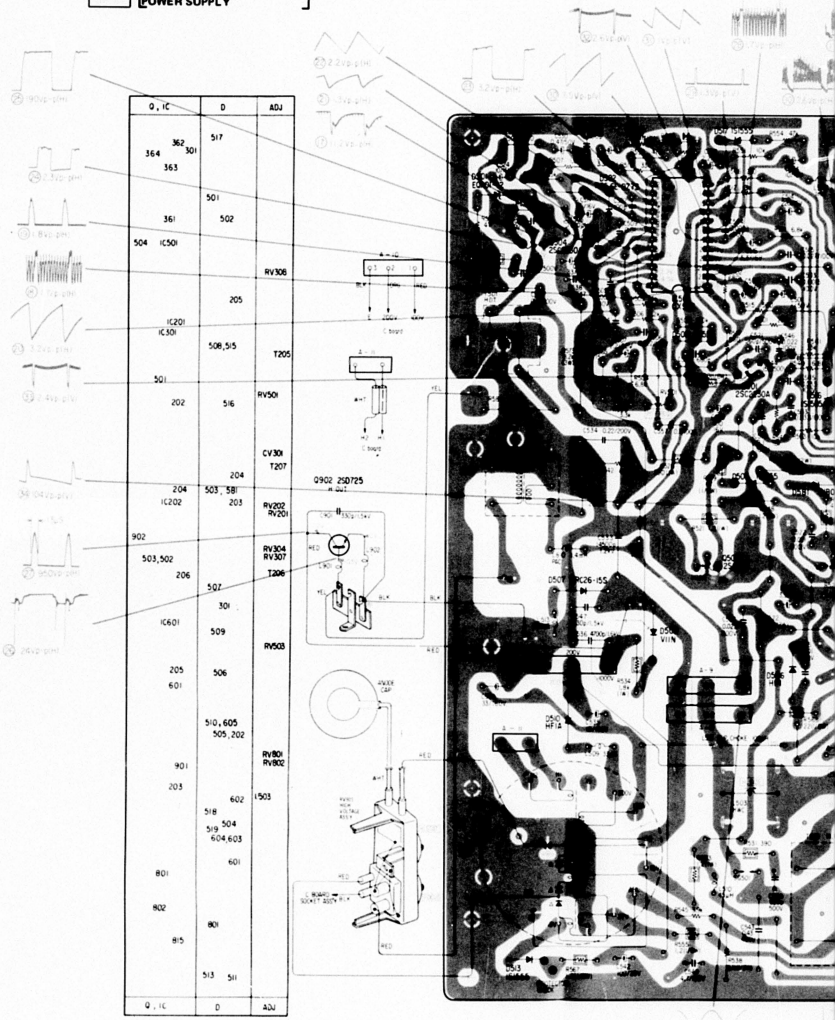
MOUNTING DIAGRAM

Note: All mounting diagrams are viewed from conductor side.
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

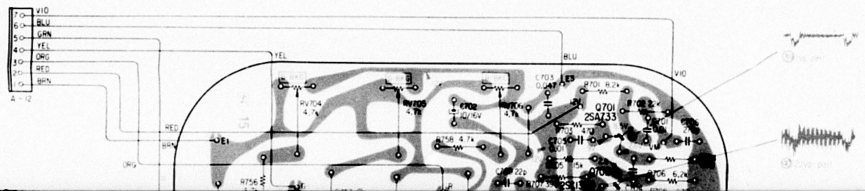
MJ [CUSTOMER CONTROL CHANNEL SET]



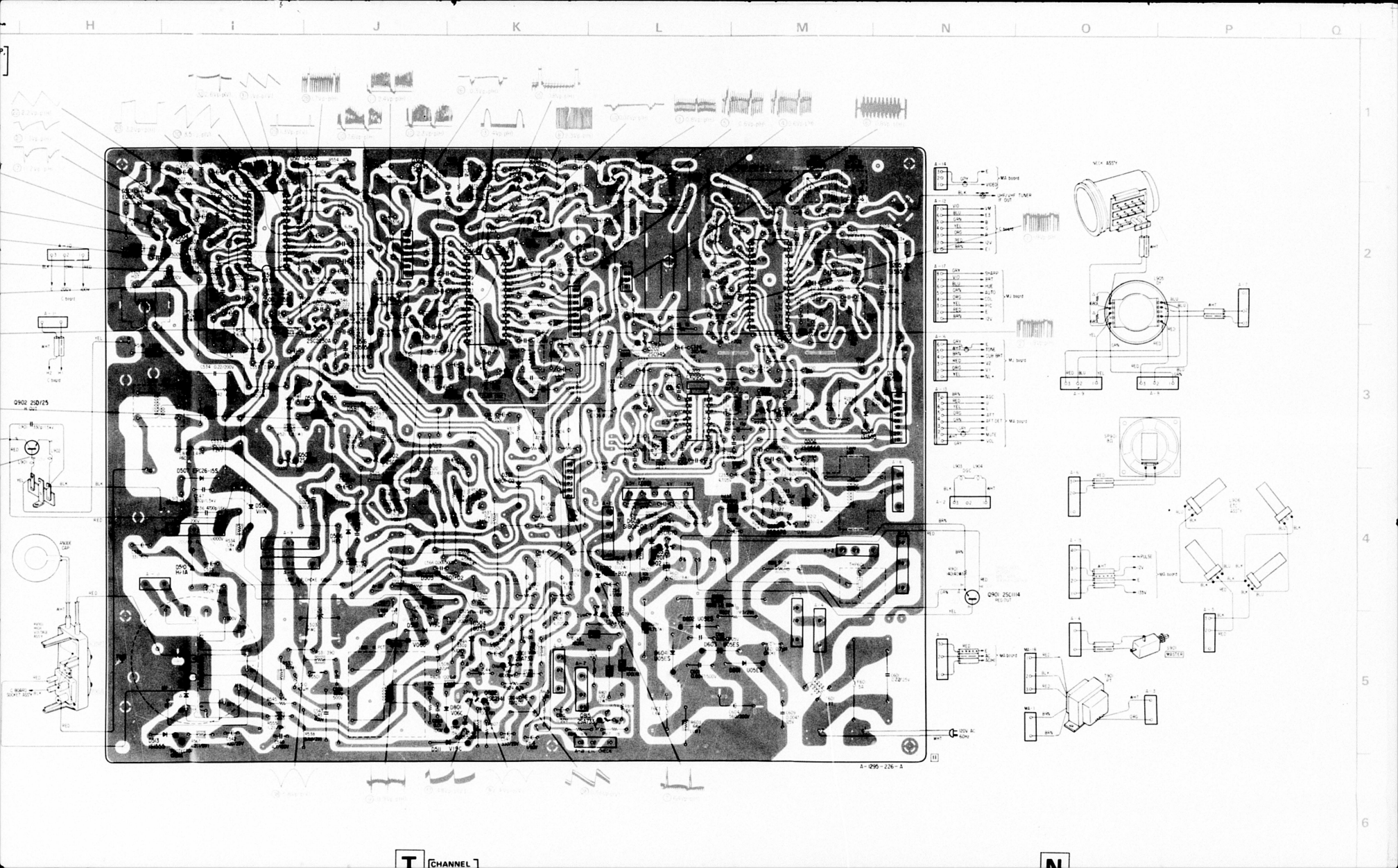
A [VIF, SIF, CHROMA, Y. AMP, VM, H. DEF, V. DEF, POWER SUPPLY]



C [R-G-B OUT, VM]

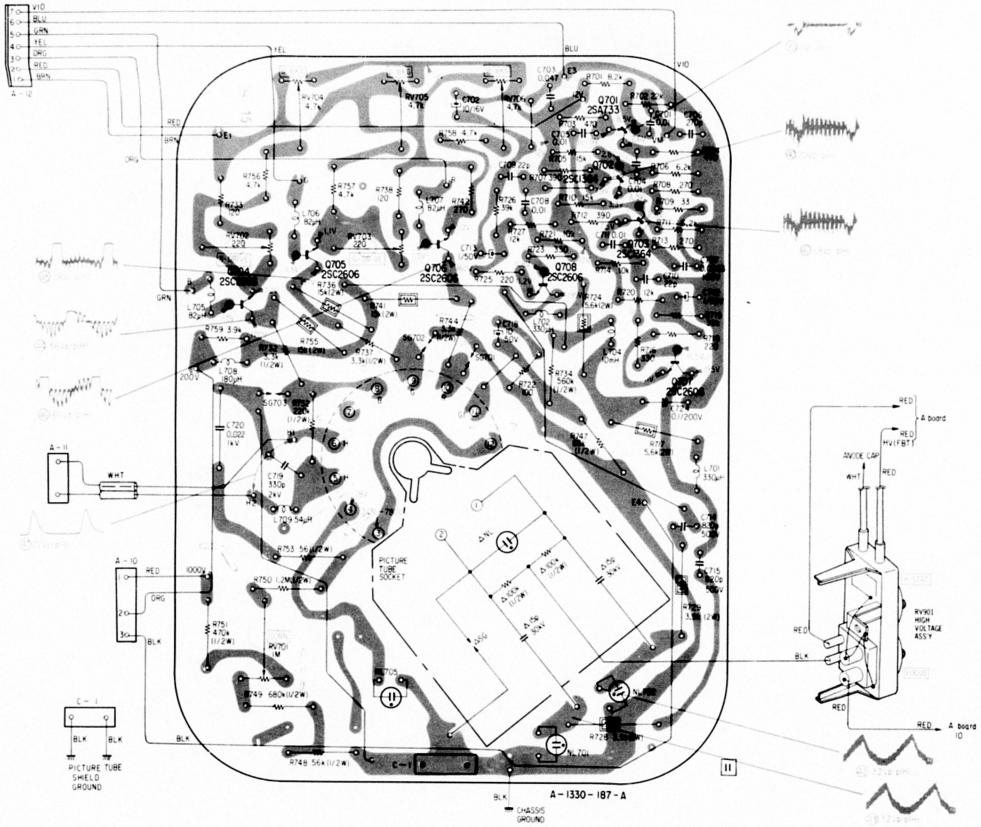


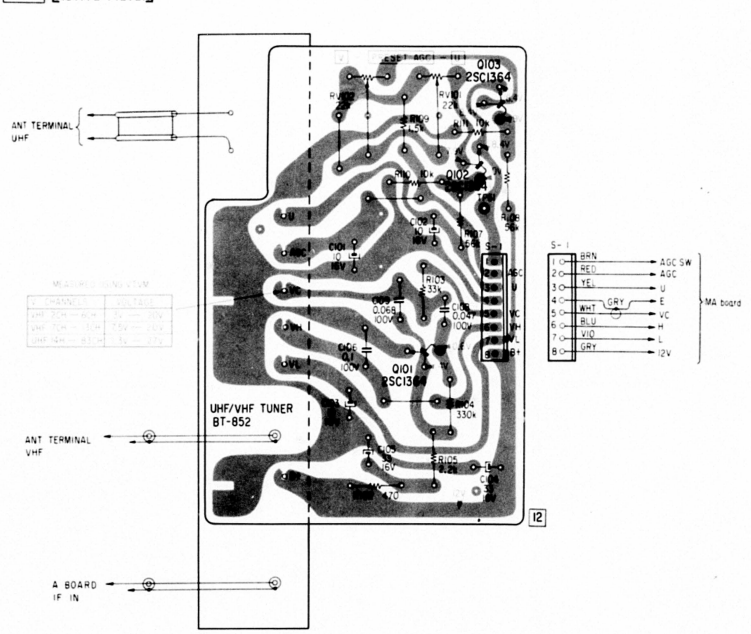
S [TUNER ACTIVE FILTER]



T [CHANNEL]

N





CX095C

CX555
CX556

CX557

CX760
CX804

CX761
CX763

HD38980C

IC601

LM358P

M51903L

MC14046BCP

TC4011BP

μPC574J

μPD552C015

2N3904

2SA733

2SA835

2SA840

2SA951

2SA1027R

2SB568

2SC634A

2SC945

2SC1061
2SC1419
2SD478

2SC1114
2SD725

2SC1364
2SC1670
2SC1890A
2SC2230A

2SC1962

2SC2141

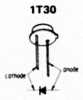
2SC2278

2SC2606

2SK23A
2SK23A-840

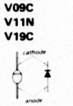
10E2
1S1555
1S2076A
RD5.6E-BZ7S
RD10E-B
RD13E-B2Z
RD24E-B4Z

1T30

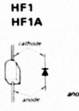


EQB01-10
EQB01-12Z
EQA01-25R
EQB01-19Z
EQB01-25
SIB01-04

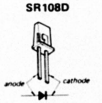
ERC26-15S
GH3F
GU3A
U05E
U05ES
V06C
V09C
V11N
V19C



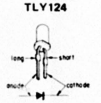
HF1
HF1A



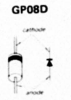
SR108D



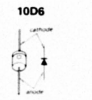
TLG124
TLR124
TLY124



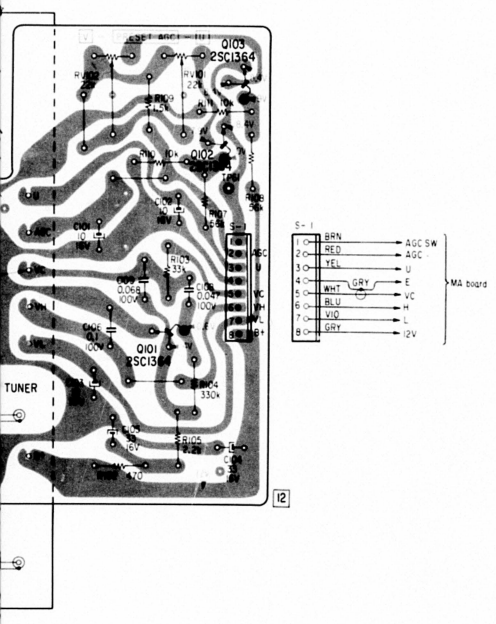
GP08D

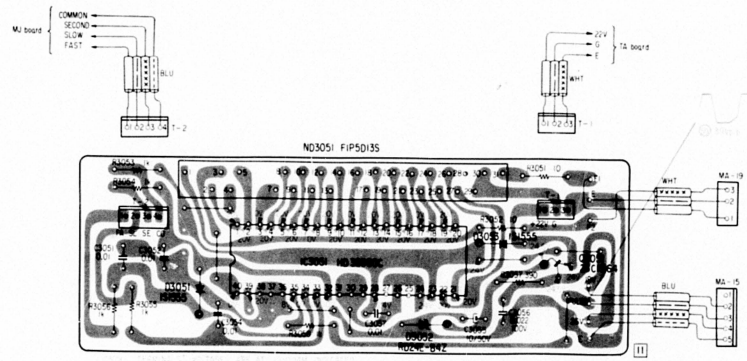


10D6

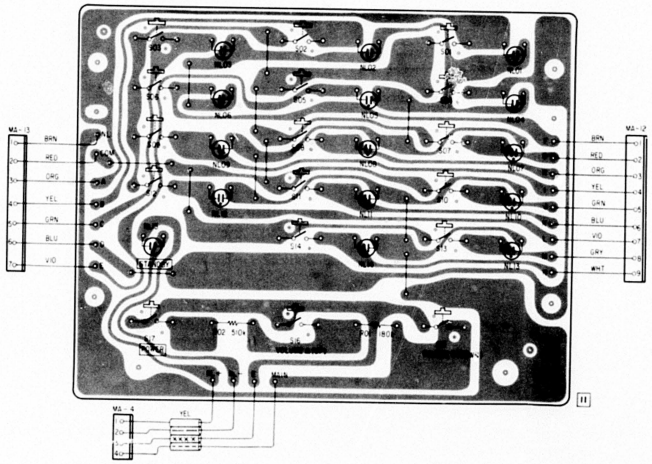


T [CHANNEL INDICATOR]

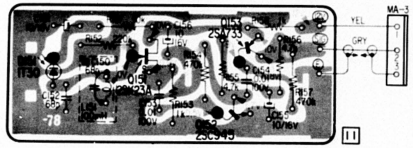




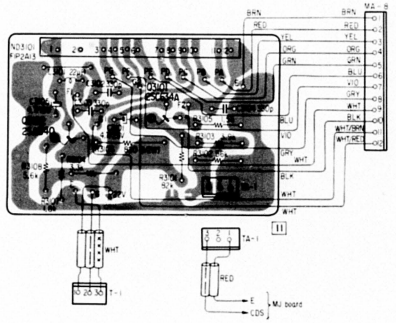
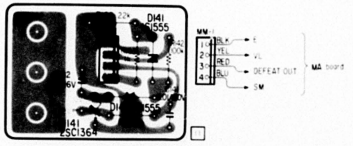
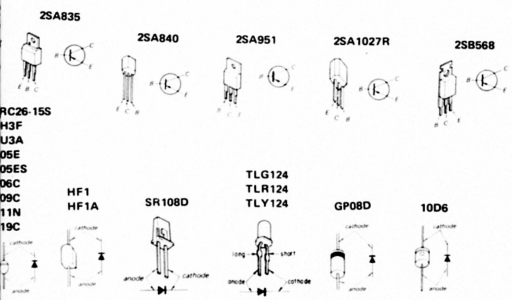
M [CHANNEL SELECT BLOCK]



N [DETECTOR]



TA [CLOCK DRIVE]



MM [WIDE AFT DEFEAT]